



ROGERS PASS WASHROOM FACILITY AND DAY USE AREA



ARCHITECTURAL	
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DRAWING LIST - ARCHITECTURAL	
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STRUCTURAL	
<p>STRUCTURAL Engineers Suite #204, 110 12 Ave SW Calgary, AB T2R 0G7</p>	
DRAWING LIST - STRUCTURAL	
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S-000	COVERSHEET
S-100	GENERAL NOTES AND TYPICAL DETAILS
S-101	GENERAL NOTES AND TYPICAL DETAILS
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S-201	FRAMING PLANS
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S-301	SECTION AND DETAILS

MECHANICAL	
<p>MECHANICAL Suite #204, 110 12 Ave SW Calgary, AB T2R 0G7</p>	
DRAWING LIST - MECHANICAL	
SHEET NO:	SHEET NAME:
M0	MECHANICAL LEGEND
M0S1	MECHANICAL SITE PLAN
M1	FLOOR PLAN - DRAINAGE LAYOUT
M2	FLOOR PLAN - PLUMBING LAYOUT
M3	FLOOR PLAN - H.V.A.C LAYOUT
M4	FLOOR PLAN - HYDRONIC LAYOUT
M5	MECHANICAL DETAILS
M6	MECHANICAL SCHEDULES

ELECTRICAL	
<p>ELECTRICAL Suite #204, 110 12 Ave SW Calgary, AB T2R 0G7</p>	
DRAWING LIST - ELECTRICAL	
SHEET NO:	SHEET NAME:
E0	ELECTRICAL LEGEND
E0S1	ELECTRICAL SITE PLAN
E1	FLOOR PLAN - LIGHTING
E2	FLOOR PLAN - POWER AND AUXILIARY
E3	ELECTRICAL SCHEDULES
E4	ELECTRICAL DETAILS

LANDSCAPE	
<p>LANDSCAPE #204, 337-17th Avenue SW, Calgary, AB T2S 0A5</p>	
DRAWING LIST - LANDSCAPE	
SHEET NO:	SHEET NAME:
L-1	LAYOUT PLAN
L-1.1	LAYOUT PLAN - CONCRETE CONTROL JOINTS
L-1.2	Unnamed
L-2	PLANTING PLAN
L-3.1	SECTIONS

CIVIL	
<p>CIVIL Suite #204, 110 12 Ave SW Calgary, AB T2R 0G7</p>	
DRAWING LIST - CIVIL	
SHEET NO:	SHEET NAME:
C-1	SITE EX & POST SERVICING PLAN
C-2	SITE GRADING PLAN
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C-4	DETAILS

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ID1.05	INTERIOR ELEVATIONS

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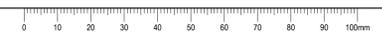
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COVER SHEET

Project No. / No. du projet
CAI 752

Sheet / Feuille
A0.00

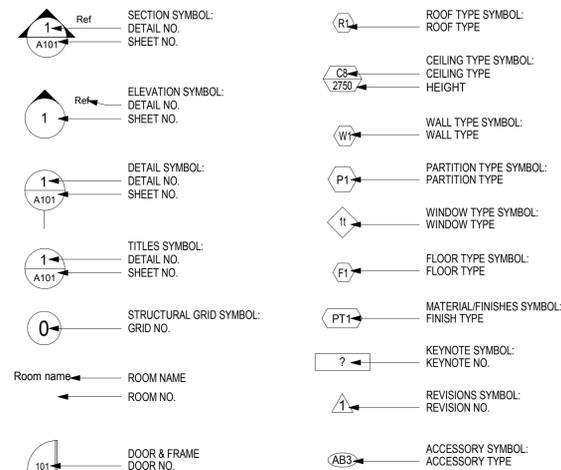
Revision no. / La Révision no.
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GENERAL NOTES

1. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE NATIONAL BUILDING CODE 2015, THE NATIONAL FIRE CODE 2015, THE OCCUPATIONAL HEALTH & SAFETY ACT, AND ANY OTHER AUTHORITIES HAVING JURISDICTION.
2. THESE DRAWINGS & SPECIFICATIONS SHALL BE READ IN CONJUNCTION WITH THE NOTES ON THE DRAWINGS. ARCHITECTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH DRAWINGS BY ELECTRICAL, MECHANICAL AND STRUCTURAL ENGINEERING CONSULTANTS.
3. REPORT ALL DISCREPANCIES BETWEEN MECHANICAL, ELECTRICAL, STRUCTURAL AND THE ARCHITECTS DRAWINGS TO THE OWNER PRIOR TO PROCEEDING WITH WORK.
4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, EXISTING AND NEW CONDITIONS AND REPORT ALL NON - CONFORMANCE TO THE OWNER, PRIOR TO CONSTRUCTION.
5. ALL SUBCONTRACTORS MUST FAMILIARIZE THEMSELVES WITH THE EXISTING SITE CONDITIONS PRIOR TO SUBMITTING THEIR QUOTATION, AND OTHERWISE OBTAIN FOR THEMSELVES ANY INFORMATION REQUIRED TO SUBMIT A FIRM QUOTATION.
6. THE GENERAL CONTRACTOR WILL BE RESPONSIBLE TO REGULATE AND ENFORCE LOCAL FIRE CODES AND BUILDING CODES AS SET FORTH BY LOCAL JURISDICTIONS FOR THE DURATION OF CONSTRUCTION.
7. ALL ARCHITECTURAL COMPONENTS WILL BE ENGINEERED AND INSTALLED BY THE RESPECTIVE SUPPLIERS & TRADES SO AS TO CONFORM WITH REQUIRED ANCHORAGE AND SEISMIC RESTRAINT AS PER ALL LOCAL CODES.
8. VERTICAL FACE OF HOUSEKEEPING PAD TO BE PAINTED YELLOW.
9. ALL DIMENSIONS TO FACE OF STUD UNLESS NOTED OTHERWISE.
10. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
11. MAINTAIN DISTANCE OF 150mm FROM DOOR R.O. TO THE WALL PERPENDICULAR TO DOOR OPENING FOR ALL INTERIOR DOORS.

DRAWING SYMBOLS LEGEND:



ABBREVIATIONS

ABOVE FINISHED FLOOR	AFF	MAN HOLE	MH
ALBERTA BUILDING CODE 2006	ABC	MASONRY OPENING	MO
ALUMINUM	ALUM	MAXIMUM	MAX.
ARCHITECTURAL	ARCH	MECHANICAL	MECH.
BARRIER FREE ACCESS	BFA	MEDIUM DENSITY FIBREBOARD	MDF
BOTH WAYS	BW	METAL	MTL
BOTTOM	BOT	MISCELLANEOUS	MISC.
BOTTOM OF	B/O	MINIMUM	MIN.
BUILDING	BLDG	NATURAL	NAT.
CARPET	CP	NOT APPLICABLE	N/A
CAST IN PLACE	C.I.P.	NOT IN CONTRACT	N.I.C.
CEILING	CLG	NOT TO SCALE	N.T.S.
CENTRE LINE	CL	NUMBER	NO.
CENTRE TO CENTRE	C/C	ON CENTRE	OC
CERAMIC TILE	CT	ORIENTED STRAND BOARD	OSB
COLUMN	COL	OUT TO OUT	O/O
COMPLETE WITH	C/W	OUTSIDE DIAMETER	O.D.
CONCRETE	CONC	OVERHEAD	OH.
CONTINUOUS	CONT	PAINT	PT
CORRIDOR	CORR	PLYWOOD	PLY
CURTAIN WALL	CW	POLYETHYLENE	POLY.
		PRECAST CONCRETE	PC.CONC.
		PREFINISHED	PREFIN.
		PROPERTY LINE	PL
		RAIN WATER LEADER	R.W.L.
		REINFORCING	REIN.
		REQUIRED	REQ.
		REVISION	REV.
		RIGHT OF WAY	R/W
		ROOF DRAIN	R.D.
		ROUGH OPENING	R.O.
		SIMILAR	SIM.
		SPECIFICATIONS	SPEC.
		STAINLESS STEEL	S.S.
		STANDARD	STD
		STEEL	ST
		STEEL STUD	SS
		STORAGE	STOR.
		TEMPERED	TEMP.
		TEMPERED LAMINATED GLASS	TLG.
		TOP OF	T/O
		TYPICAL	TYP.
		UNLESS OTHERWISE	UNO
		UNDERSIDE	UIS
		UNDERWRITERS	U.W.
		LABORATORIES OF CANADA	U.L.C.
		VAPOUR BARRIER	V.B.
		VERTICAL	VERT.
		WATER CLOSET	WC
		WATERPROOF	WP
		WALL TILE	WT
		WOOD	WD
DETAIL(S)	DET		
DIMENSIONS	DIM		
DIAMETER	DIA		
DOWN	DN		
DRAWING(S)	DWGS		
EACH	EA		
ELEVATION	EL / ELEV		
ELECTRICAL	ELEC		
EQUAL	EQ.		
EXISTING	EXIST.		
EXTERIOR	EXT		
EXTERIOR INSULATION	EFIS		
FINISH SYSTEM			
FACE OF	F/O		
FINISH	FIN		
FIRE RATED	FR		
FIRE RESISTANCE RATING	FRR		
FLOOR	FLR		
FLOOR DRAIN	FD		
FOOTING	FTG		
GALVANIZED	GALV		
GAUGE	GA		
GLAZING	GL		
GRADE	GRD		
GROUND FLOOR	GF		
GYPNUM WALL BOARD	GWB		
GEODETIC	GEO.		
INTERIOR	INT.		
JANITOR	JAN.		
LAVATORY	LAV.		

ASSEMBLIES

EXTERIOR WALL			
W1	UPPER WALL	VARIES	<p>EXTERIOR WALL</p> <p>NOTE: EXTERIOR FINISHES - REFER TO ELEVATION FOR MATERIAL AND COLOUR SEE ELEVATION FOR HEIGHT VARIATION REFER TO DRAWING 1 & 2 ON A7.00 FOR SYSTEM ASSEMBLY</p> <p>UPPER WALL: BEVELED SIDING, SHIPLAP JOINT WOOD PLANKS BUILDING PAPER 15.5 mm THK EXTERIOR GRADE PLYWOOD SHEATHING 152 mm DEEP THERMAL SPACER VERTICAL APPLICATION c/w 25 mm DEEP VERTICAL Z-GIRT FASTENING TO LINE-UP W/ VERTICAL WOOD STUD 2 LAYERS OF 76 mm THK SEMI-RIGID MINERAL FIBRE INSULATION R-VALUE: 24.0 2-PLY BUILDING PAPER 15.5 mm THK EXTERIOR GRADE PLYWOOD SHEATHING 38 mm x 140 mm WOOD STUDS SPACED @ 400 mm O.C. BATT INSULATION IN STUDS CAVITY R-VALUE: 21.0 6ml POLYETHYLENE VAPOUR BARRIER 16 mm THK GYPSUM WALL BOARD</p> <p>LOWER WALL: ROCK VENEER MORTAR, BOND COAT MORTAR, SCRATCH COAT AIR BARRIER AS REQUIRED 16 mm THK EXTERIOR GRADE CEMENT BOARD 152 mm DEEP GALV. STEEL VERTICAL Z-GIRT SPACING TO LINE-UP w/ WOOD STUDS 2 LAYERS OF 76 mm THK SEMI-RIGID MINERAL FIBRE INSULATION R-VALUE: 24.0 2-PLY BUILDING PAPER 15.5 mm THK EXTERIOR GRADE PLYWOOD SHEATHING 38 mm x 140 mm WOOD STUDS SPACED @ 400 mm O.C. BATT INSULATION IN STUDS CAVITY R-VALUE: 21.0 6ml POLYETHYLENE VAPOUR BARRIER 16 mm THK GYPSUM WALL BOARD</p>
	LOWER WALL	700	
W2			<p>EXTERIOR WALL</p> <p>EXTERIOR FINISHES - REFER TO ELEVATION FOR MATERIAL AND COLOUR STANDING SEAM METAL WALL PANEL (24ga) 0.51 mm THK W/ GALVALUME COATING NON-PENETRATING THERMAL CLIPS w/ THERMAL PADS 2 LAYERS OF 76 mm THK SEMI-RIGID MINERAL FIBRE INSULATION R-VALUE: 24.0 2-PLY BUILDING PAPER 15.5 mm THK EXTERIOR GRADE PLYWOOD SHEATHING 38 mm x 140 mm WOOD STUDS SPACED @ 400 mm O.C. BATT INSULATION IN STUDS CAVITY R-VALUE: 21.0 6ml POLYETHYLENE VAPOUR BARRIER 16 mm THK GYPSUM WALL BOARD</p>
<p>NOTE: REFER TO STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATIONS ALONG EXTERIOR WALL.</p>			
PARTITION WALL			
GENERAL WALL	P1		<p>PARTITION WALL</p> <p>16 mm GYPSUM BOARD 38x89mm WOOD STUDS @ 400mm O.C. 16 mm GYPSUM BOARD</p>
	P2		<p>PARTITION WALL</p> <p>16 mm GYPSUM BOARD TWO ROWS 38x89mm WOOD STUDS STAGGERED @ 400mm O.C. CLEAR WIDTH 241mm (OUT TO OUT OF STUDS) 16 mm GYPSUM BOARD</p>
PLUMBING WALL	P3		<p>PLUMBING WALL</p> <p>16 mm MILDEW RESISTANT GYPSUM BOARD (WASHROOM SIDE) 38x140mm WOOD STUDS @ 400mm O.C</p>
	P4		<p>1HR FRR-BASED ON UL U333</p> <p>16 mm TYPE X GYPSUM BOARD TO ACCEPT PAINT 38x140mm WOOD STUDS SPACED @ 400mm O.C 16 mm TYPE X GYPSUM BOARD TO ACCEPT PAINT</p>
RATED WALL	P4a		<p>1HR FRR-BASED ON UL U333</p> <p>16 mm TYPE X GYPSUM BOARD TO ACCEPT PAINT TWO ROWS 38x89mm WOOD STUDS STAGGERED @ 400mm O.C. CLEAR WIDTH 241mm (OUT TO OUT OF STUDS) 16 mm TYPE X GYPSUM BOARD TO ACCEPT PAINT</p>
ROOF			
R1			<p>HYBRID ROOF SYSTEM STANDING SEAM METAL ROOF PANEL (24ga) 0.61mm THK WITH GALVALUME COATING NON-PENETRATING THERMAL CLIPS INSTALLED ON NEOPRENE BEARING PLATES, SPACING AS DETERMINED BY ENGINEER SYNTHETIC NON-WOVEN GEOTEXTILE LAYER, DRAINAGE MAT 1 LAYER OF 127mm THK HIGH DENSITY UNCOATED MINERAL FIBRE INSULATION BOARD (R-VALUE: 21.5) 1 LAYER OF 102mm THK POLYISOCYANURATE RIGID FOAM INSULATION BOARD (R-VALUE-22.8) 3mm P&S SBS AVB MEMBRANE 89mm DEEP COMMERCIAL GRADE WOOD T&A PLANK DECKING 203mm x 305mm SOLID WOOD RAFTER</p>
FLOOR			
F1			<p>250mm THK REINFORCED CONCRETE SLAB ON GRADE AS PER STRUCTURAL 10ml POLY VAPOUR BARRIER COMPACT GRANULAR FILL (THICKNESS AS PER STRUCTURAL) (SLOPE SLAB TOP TO TRENCHES / FLOOR DRAINS WHERE REQUIRED / INDICATED ALL FLOOR DRAIN COVERS TO FINISH SMOOTH TO ADJACENT FLOOR FINISHES)</p>
F2			<p>125mm THK REINFORCED CONCRETE SLAB ON GRADE AS PER STRUCTURAL INFILL SLAB ALONG MECHANICAL CHASE 10ml POLY VAPOUR BARRIER COMPACT GRANULAR FILL (THICKNESS AS PER STRUCTURAL) (SLOPE SLAB TOP TO TRENCHES / FLOOR DRAINS WHERE REQUIRED / INDICATED ALL FLOOR DRAIN COVERS TO FINISH SMOOTH TO ADJACENT FLOOR FINISHES)</p>
CEILING			
C1			<p>38mm THK x 89mm SOLID WOOD CEILING HANGERS 1 LAYER OF GYPSUM BOARD REFER TO RCP FOR HEIGHT VARIATIONS</p>
C2			<p>OPEN TO U/S OF ROOF STRUCTURE</p>

2015 NATIONAL BUILDING CODE OVERVIEW

GENERAL DESCRIPTION & REQUIREMENTS		
MAJOR OCCUPANCIES	GROUP A DIVISION 2 (Part 3) 3.2.2.25	
OCCUPANCY CLASSIFICATIONS	ASSEMBLY	
BUILDING AREA	BUILDING AREA - 319m ² + COLUMNS - 97.54m ² = 416.54 m ²	
NUMBER OF STOREYS	1	
CONSTRUCTION TYPE	COMBUSTIBLE	
STRUCTURAL FIRE-RESISTANCE REQUIREMENTS		
FLOOR ASSEMBLY	NO RATING REQUIRED	
LOADBEARING WALLS & COLUMNS	NO RATING REQUIRED	
ROOF ASSEMBLY	NO RATING REQUIRED	
FIRE ALARM & SUPPRESSION SYSTEMS		
AUTOMATIC SPRINKLER SYSTEM	NOT REQUIRED	
FIRE ALARM SYSTEM	NOT REQUIRED	
STANDPIPE SYSTEM	NOT REQUIRED	
EGRESS AND EXITING		
MAXIMUM TRAVEL DISTANCE	30 m	
NUMBER OF EXITS	AT LEAST 2 EXITS ARE REQUIRED (INDEPENDENT OF EACH OTHER)	
OCCUPANT LOAD		
	1 PER WASHROOM - TOTAL OF 17 PERSONS 44 m ² OF ASSEMBLY SPACE WITH FIXED SEATS - 0.75 m ² PER PERSON = 59 PERSONS MAXIMUM 76 PERSONS	
BARRIER-FREE DESIGN		
ENTRANCES	50% OF ALL ENTRANCES ARE REQUIRED TO BE BARRIER FREE.	
PATH OF TRAVEL	920 mm MINIMUM	
DOORS	POWER OPERATED DOORS ARE NOT REQUIRED BUT WILL BE PROVIDED CLEAR DOOR WIDTH OF 800 mm MINIMUM	
WASHROOMS	1500 MM DIAMETER TURNING CIRCLE INSIDE ROOM CLEAR DOOR WIDTH OF 850 MM DIMENSION FROM CENTERLINE OF WATER CLOSET TO SIDE WALL: BETWEEN 460 mm - 480 mm WATER CLOSET CLEARANCE: HAVE A CLEAR FLOOR SPACE AT LEAST 900 mm WIDE THAT IS PARALLEL AND ADJACENT TO THE OPEN SIDE OF THE WATER CLOSET GRAB BARS REQUIRED AS PER SENTENCE 3.8.3.8 (2)	
INTERIOR FIRE SEPARATIONS		
ROOM/ SPACE	FIRE-RESISTANCE RATING OF FIRE SEPARATION	FIRE-PROTECTION RATING OF CLOSURE
ROOMS CONTAINING FUEL-FIRED APPLIANCES	1 HR	45 MIN
ELECTRICAL ROOMS	1 HR	45 MIN
JANITOR'S ROOM	45 MIN	45 MIN

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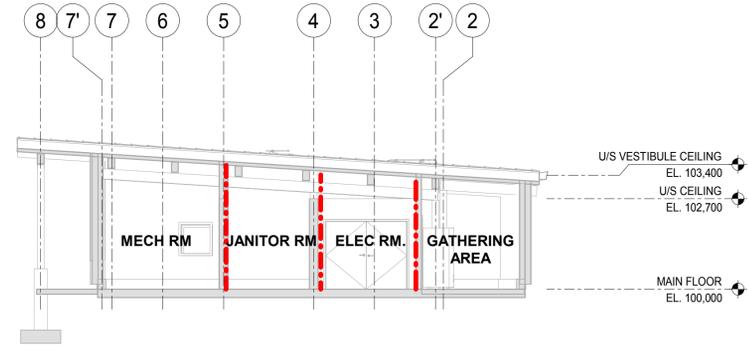
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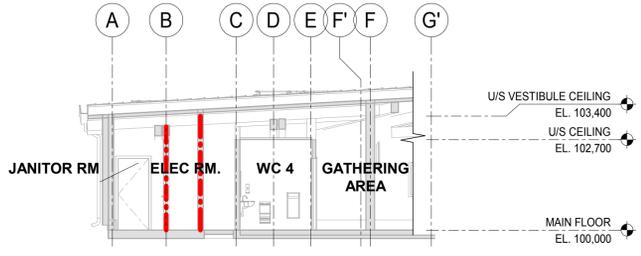
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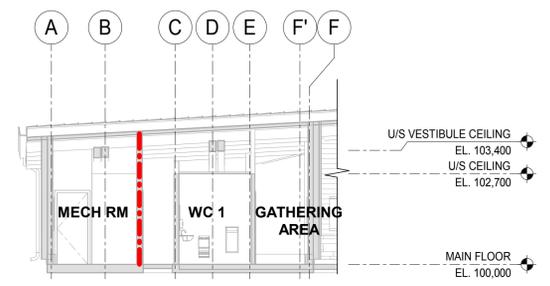




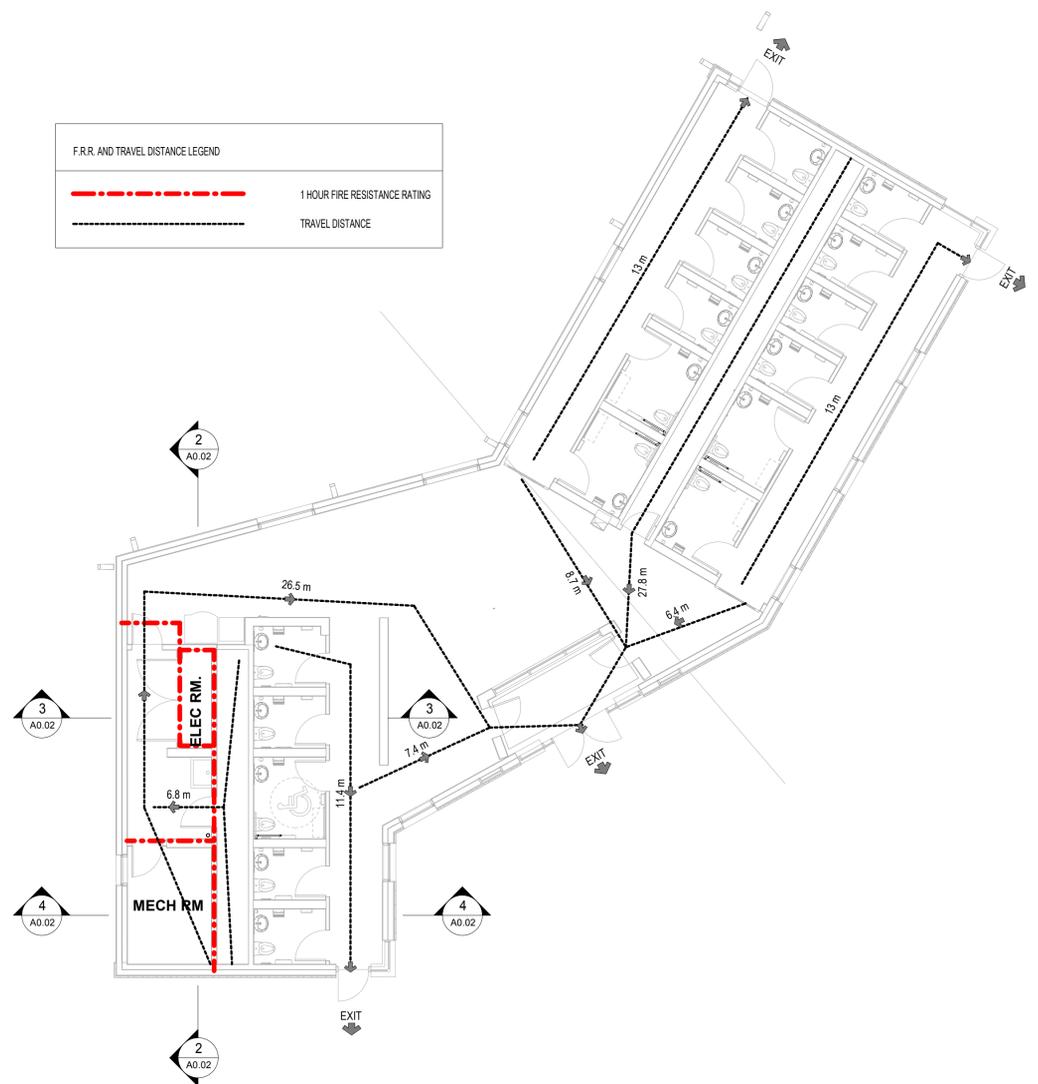
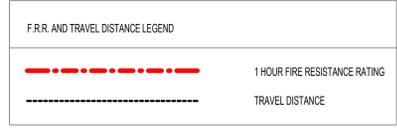
2 SOUTH WING - UTILITIES
A0.02 SCALE: 1:100



3 SOUTH WING - WASHROOMS / ELECTRICAL
A0.02 SCALE: 1:100



4 SOUTH WING - WASHROOMS / MECH ROOM
A0.02 SCALE: 1:100



1 FLOOR PLAN - FIRE RESISTANCE RATING AND TRAVEL DISTANCE
A0.02 SCALE: 1:100

NOTE: MINIMUM PATH OF TRAVEL IS 920 mm AS PER CSA B651 REQUIREMENT.

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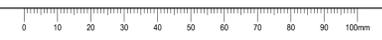
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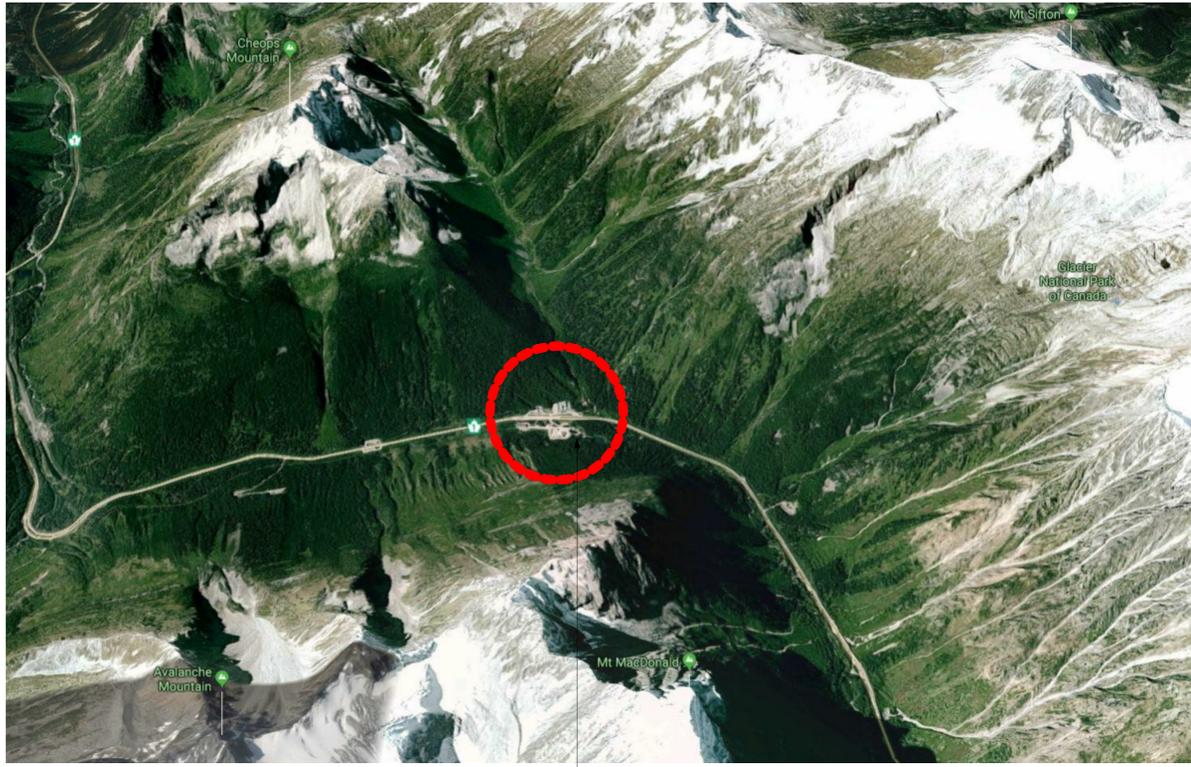
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FIRE SEPARATION / TRAVEL DISTANCE

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1 CONTEXT MAP
A0.03 SCALE: NTS

NOTE: APPROXIMATE DISTANCE FROM GOLDEN IS 80.8 km AND FROM REVELSTOKE IS 67.8 km

PROPOSED SITE 51.301795, -117.521540. GENERAL CONTRACTOR TO CONFIRM EXACT LOCATION OF BUILDING WITH DEPARTMENTAL REPRESENTATIVE



2 PROPOSED WASHROOM LOCATION
A0.03 SCALE: NTS

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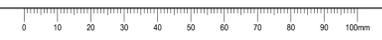
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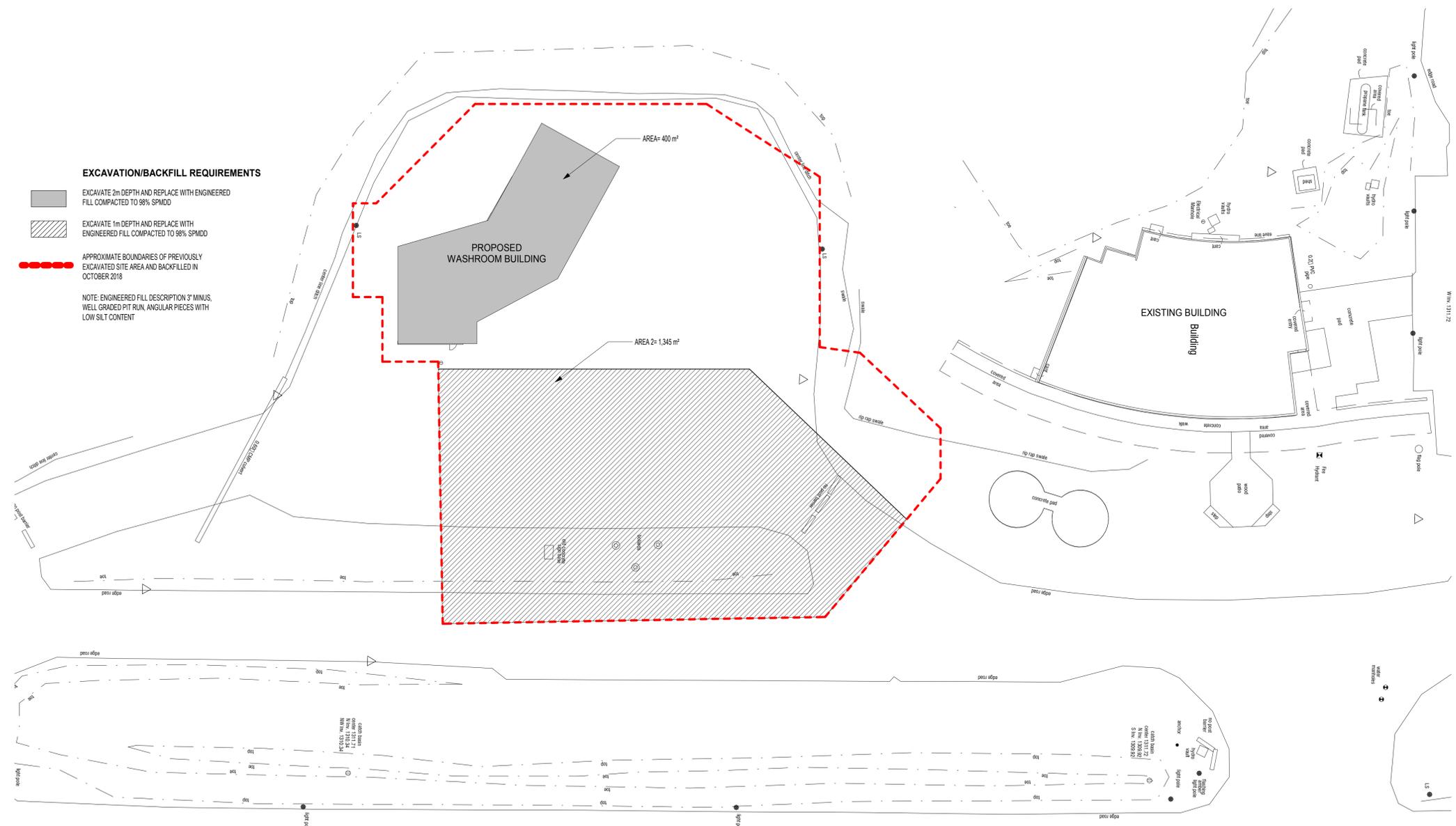
LOCATION PLANS

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- EXCAVATION/BACKFILL REQUIREMENTS**
- EXCAVATE 2m DEPTH AND REPLACE WITH ENGINEERED FILL COMPACTED TO 98% SPMDD
 - EXCAVATE 1m DEPTH AND REPLACE WITH ENGINEERED FILL COMPACTED TO 98% SPMDD
 - APPROXIMATE BOUNDARIES OF PREVIOUSLY EXCAVATED SITE AREA AND BACKFILLED IN OCTOBER 2018
- NOTE: ENGINEERED FILL DESCRIPTION 3" MINUS, WELL GRADED PIT RUN, ANGULAR PIECES WITH LOW SILT CONTENT



- NOTES**
1. For Area 1 is defined as the building footprint plus a buffer of 1 m, including the front columns. This area should be excavated to a depth of 2 m below the existing ground surface.
 2. Results of compaction of the previously backfilled can be found in appendices.
 3. The contractor should retain a geotechnical engineer to confirm the compaction and to provide the load bearing capacity of the soil underneath the building.
 4. All backfilled material should be underlain by a geotextile.
 5. Construction of engineered fill in maximum 150 mm lifts 98% SPMDD.
 6. Contractor should maintain appropriate backslopes for all excavations.
 7. All excavation limits will be confirmed with Departmental Representative prior to excavation

1 EXCAVATION/BACKFILL REQUIREMENTS
A0.04 SCALE: 1 : 300

Revision / Révision	Description / Description	Date / Date
1	ISSUED FOR TENDER	12-14-18



ROGERS PASS WASHROOM FACILITY AND DAY USE AREA

Approved by/Approve par
AMINA OYAKHLOME

Designed by/Concept par
PETER SCHULZ

Drawn by/Dessiné par
MARAL SAFARZADEH

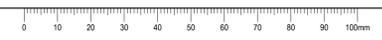
Project Manager/Administrateur de Projets
ANDREW OOSTING

Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'ingénierie

Client / client
Parks Canada

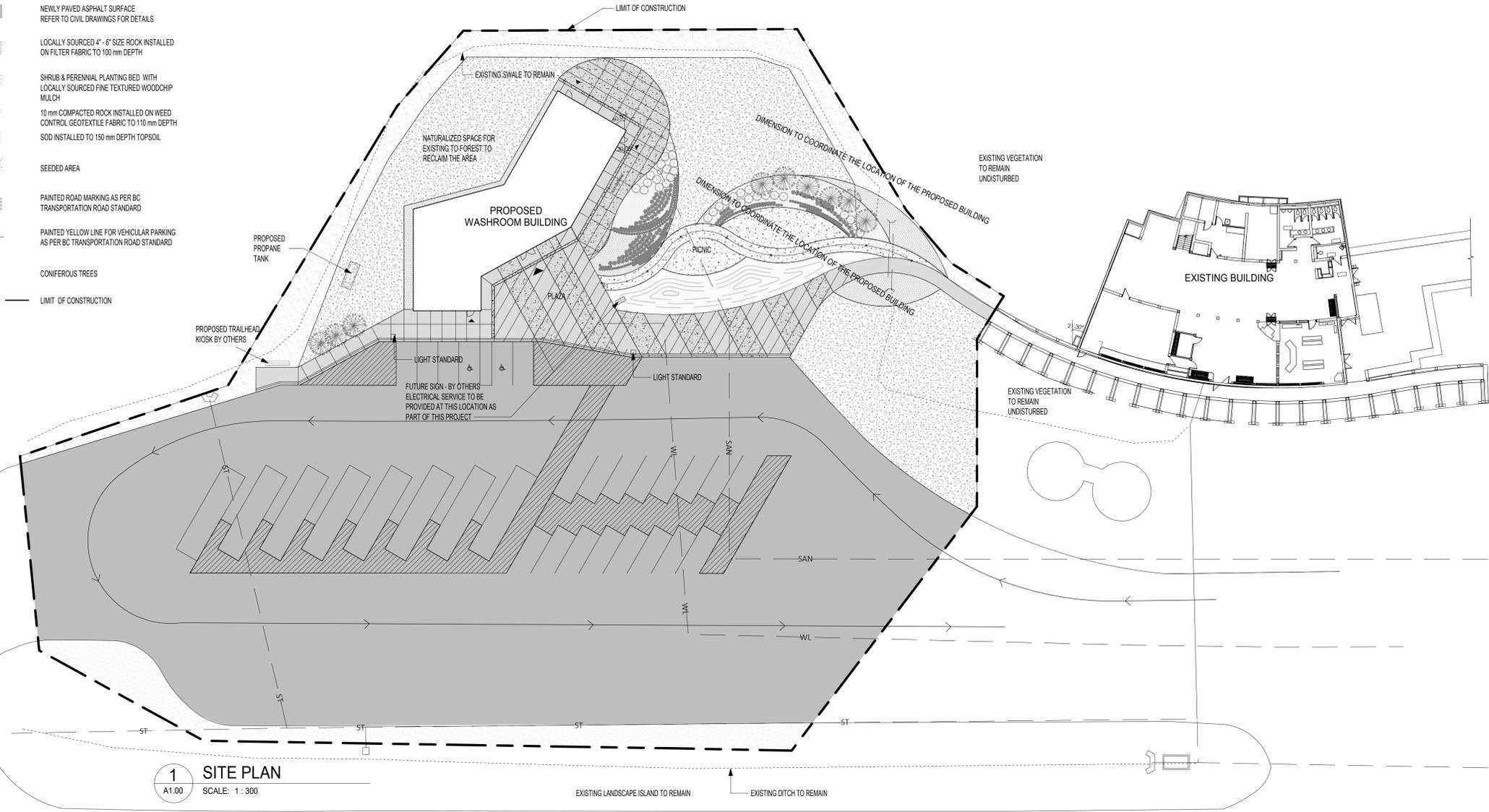
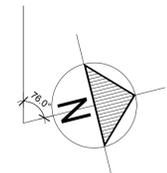
EXCAVATION PLAN AND DETAILS

Project No. / No. du projet CAI 752	Sheet / Feuille A0.04	Revision no. / La Révision no. 1
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- 150 mm THICK LIGHT SANDBLAST FINISH CONC. WITH SAW CUT JOINTS. COLOR TO MATCH THE BEIGE COLOR OF PAVING AT RPDC.
- 150 mm THICK HEAVY SANDBLAST FINISH CONC. W/SAW CUT JOINTS. COLOR TO MATCH THE COLOR OF PAVING AT RPDC.
- 150 mm THICK BROOM FINISH CONC. W/ SAW CUT JOINTS. COLOR TO MATCH THE COLOR OF PAVING AT RPDC.
- NEWLY PAVED ASPHALT SURFACE REFER TO CIVIL DRAWINGS FOR DETAILS
- LOCALLY SOURCED 4" - 6" SIZE ROCK INSTALLED ON FILTER FABRIC TO 100 mm DEPTH
- SHRUB & PERENNIAL PLANTING BED WITH LOCALLY SOURCED FINE TEXTURED WOODCHIP MULCH
- 10 mm COMPACTED ROCK INSTALLED ON WEED CONTROL GEOTEXTILE FABRIC TO 110 mm DEPTH SOD INSTALLED TO 150 mm DEPTH TOPSOIL
- SEEDED AREA
- PAINTED ROAD MARKING AS PER BC TRANSPORTATION ROAD STANDARD
- PAINTED YELLOW LINE FOR VEHICULAR PARKING AS PER BC TRANSPORTATION ROAD STANDARD
- CONIFEROUS TREES
- LIMIT OF CONSTRUCTION



1 SITE PLAN
A1.00 SCALE: 1 : 300

Revision / Révision	Description / Description	Date / Date
5	ISSUED FOR TENDER	12-14-18
4	ISSUED FOR 99%	10-26-18
3	ISSUED FOR 90%	08-20-18
2	ISSUED FOR 60%	05-31-18
1	ISSUED FOR 30%	03-28-18

Client / client



Project title/Titre du projet

ROGERS PASS WASHROOM FACILITY AND DAY USE AREA

Approved by/Approve par
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Drawn by/Dessiné par
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Project Manager/Administrateur de Projets
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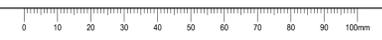
Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'ingénierie

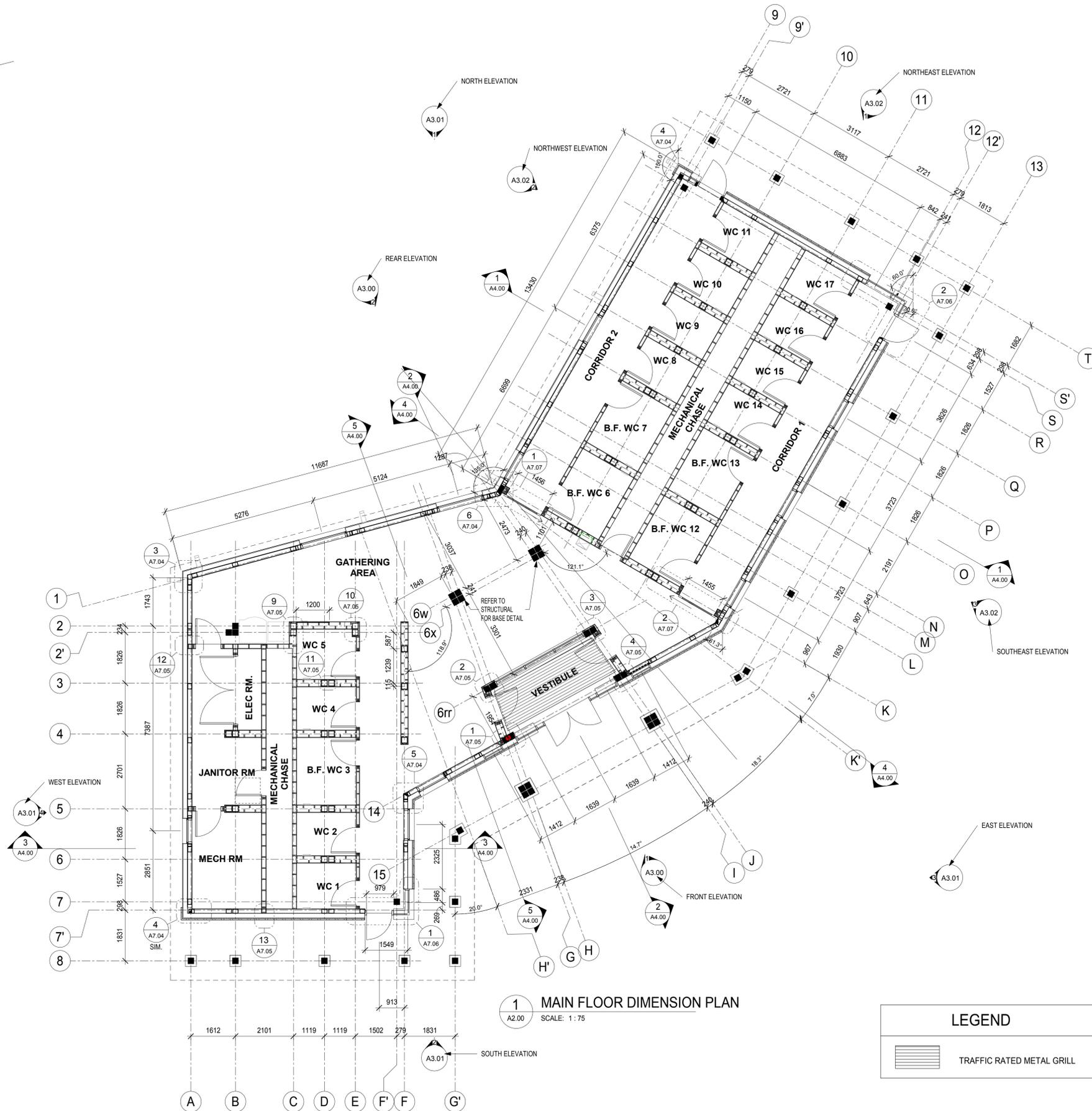
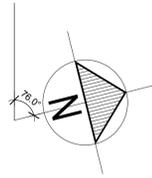
Client / client
Parks Canada

Drawing title / Titre du dessin

SITE PLAN

Project No. / No. du projet	Sheet / Feuille	Revision no. / La Révision no.
CAI 752	A1.00	4





1 MAIN FLOOR DIMENSION PLAN
SCALE: 1:75

LEGEND	
	TRAFFIC RATED METAL GRILL

riddell architect ltd.
1110 - 1st. Street SW. - Calgary, Alberta, Canada T2R 0V1
tele: 403.266.2100 | fax: 403.266.2170 | info@riddell.ca | www.riddell.ca



Revision / Révision	Description / Description	Date / Date
5	ISSUED FOR TENDER	12-14-18
4	ISSUED FOR 99%	10-26-18
3	ISSUED FOR 90%	08-20-18
2	ISSUED FOR 60%	05-31-18
1	ISSUED FOR 30%	03-28-18

Client / client



Project title / Titre du projet

**ROGERS PASS WASHROOM
FACILITY AND DAY USE
AREA**

Approved by/Approuvé par
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ANDREW OOSTING

Architectural and Engineering Resources Manager/
Ressources Architecturales et de Directeur d'ingénierie

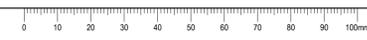
Client / client

Parks Canada

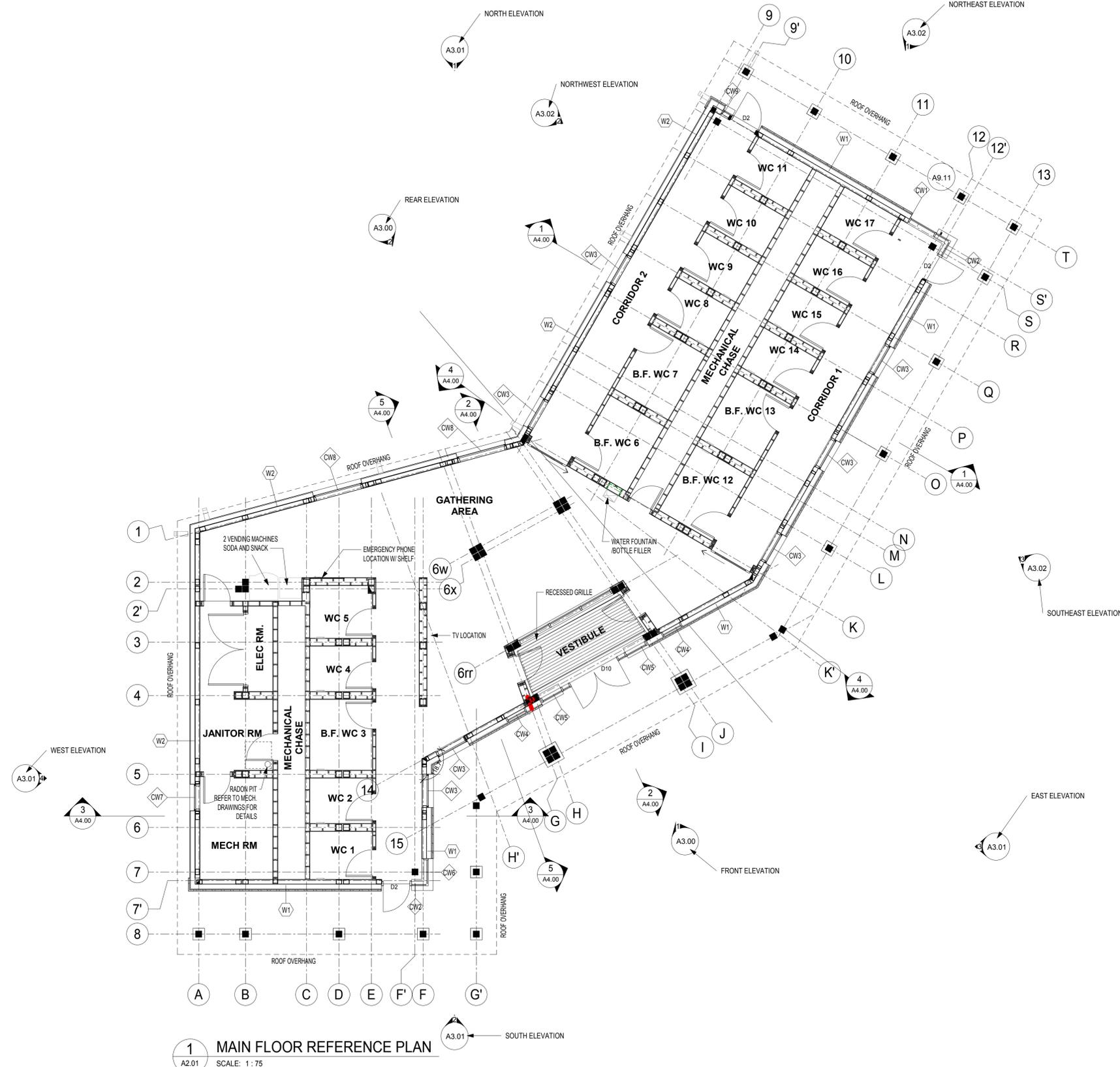
Drawing title / Titre du dessin

MAIN FLOOR DIMENSION PLAN

Project No. / No. du projet	Sheet / Feuille	Revision no. / La Révision no.
CAI 752	A2.00	5



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tele: 403.266.2100 | fax: 403.266.2170 | info@riddell.ca | www.riddell.ca



1 MAIN FLOOR REFERENCE PLAN
A2.01 SCALE: 1 : 75

Revision / Révision	Description / Description	Date / Date
5	ISSUED FOR TENDER	12-14-18
4	ISSUED FOR 99%	10-26-18
3	ISSUED FOR 90%	08-20-18
2	ISSUED FOR 60%	05-31-18
1	ISSUED FOR 30%	03-28-18



Project title / Titre du projet

ROGERS PASS WASHROOM FACILITY AND DAY USE AREA

Approved by / Approuvé par
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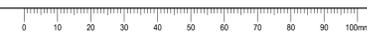
Project Manager / Administrateur de Projets
ANDREW OOSTING

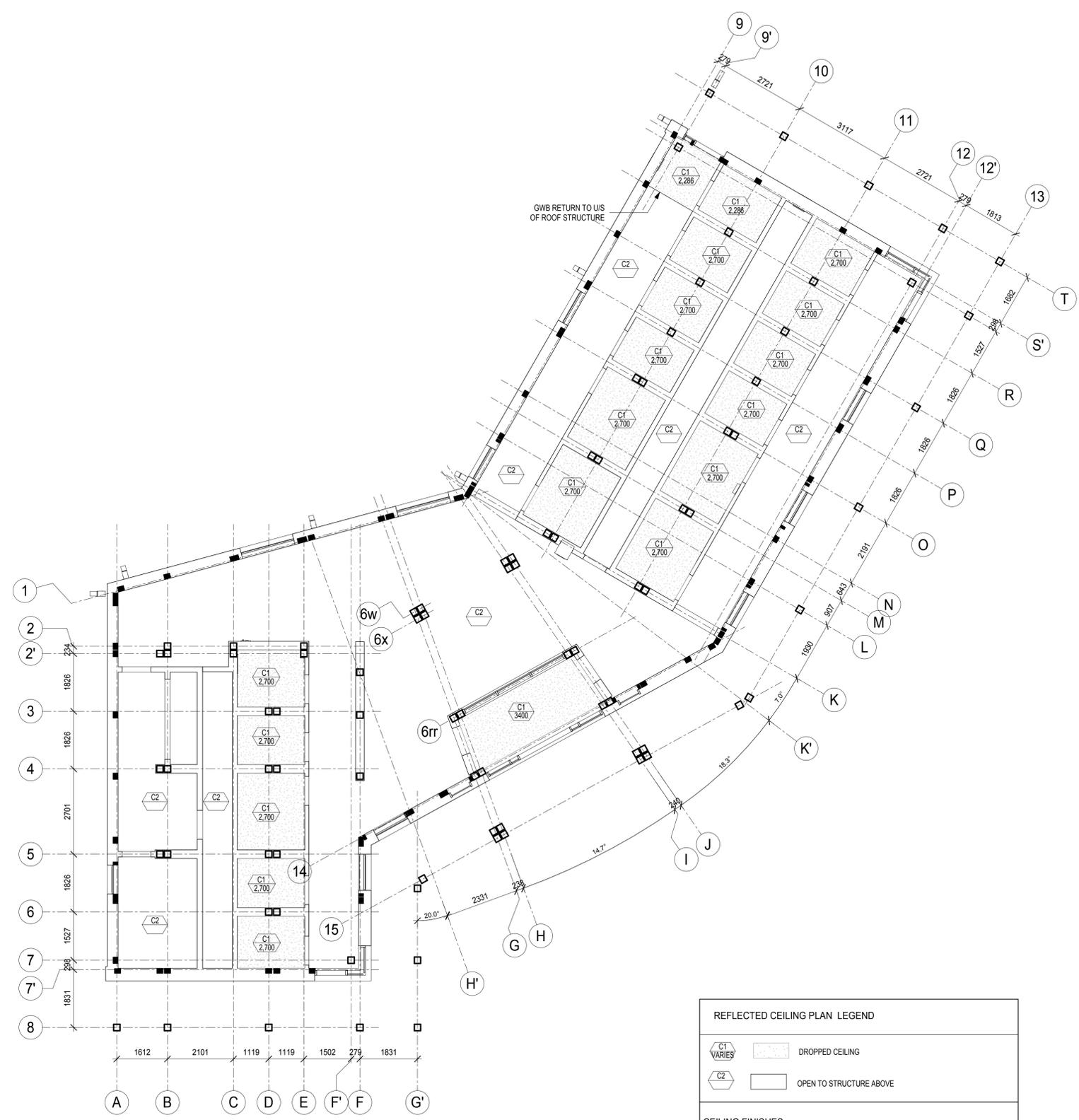
Architectural and Engineering Resources Manager /
Ressources Architectural et de Directeur d'ingénierie

Client / client
Parks Canada

MAIN FLOOR REFERENCE PLAN

Project No. / No. du projet	Sheet / Feuille	Revision no. / La Révision no.
CAI 752	A2.01	5





2 REFLECTED CEILING PLAN
A2.02 SCALE: 1:75

REFLECTED CEILING PLAN LEGEND

C1 VARIES DROPPED CEILING

C2 OPEN TO STRUCTURE ABOVE

CEILING FINISHES

C1 PRODUCT TYPE: EGGSHELL HIGH DURABILITY SCRUBBABLE PAINT - LOW V.O.C
 COLOR NAME: TO BE DETERMINED
 FINISH: EGGSHELL HIGH-DURABILITY
 LOCATION: AS INDICATED ON REFLECTED CEILING PLAN
 NOTE: ENSURE NO VISIBLE STREAKING

Revision / Révision	Description / Description	Date / Date
5	ISSUED FOR TENDER	12-14-18
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1	ISSUED FOR 30%	03-28-18



ROGERS PASS WASHROOM FACILITY AND DAY USE AREA

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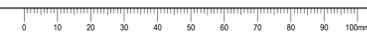
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Ressources Architecturales et de Directeur d'Ingénierie

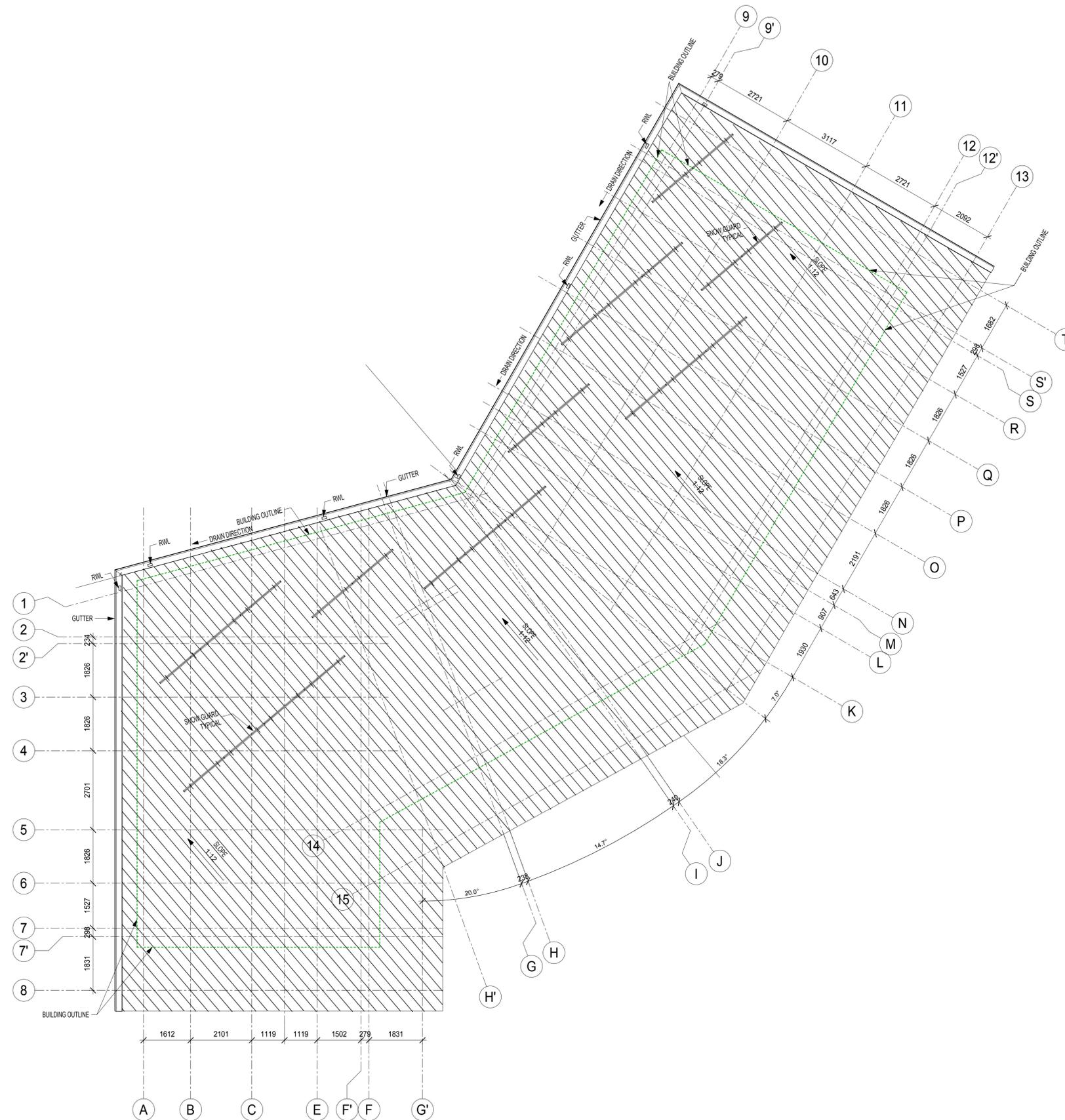
Client / client
Parks Canada

Drawing title / Titre du dessin

REFLECTED CEILING PLAN

Project No. / No. du projet CAI 752	Sheet / Feuille A2.02	Revision no. / La Révision no. 5
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1 ROOF PLAN

 A2.03 SCALE: 1 : 75

Revision / Révision	Description / Description	Date / Date
4	ISSUED FOR TENDER	12-14-18
3	ISSUED FOR 95%	10-26-18
2	ISSUED FOR 90%	09-20-18
1	ISSUED FOR 60%	05-31-18



Project title / Titre du projet

ROGERS PASS WASHROOM FACILITY AND DAY USE AREA

Approved by / Approuvé par: AMINA OYAKHLOME

 Designed by / Concept par: PETER SCHULZ

 Drawn by / Dessiné par: MARAL SAFARZADEH

 Project Manager / Administrateur de Projets: ANDREW OOSTING

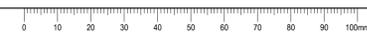
Architectural and Engineering Resources Manager / Ressources Architecturales et de Directeur d'ingénierie

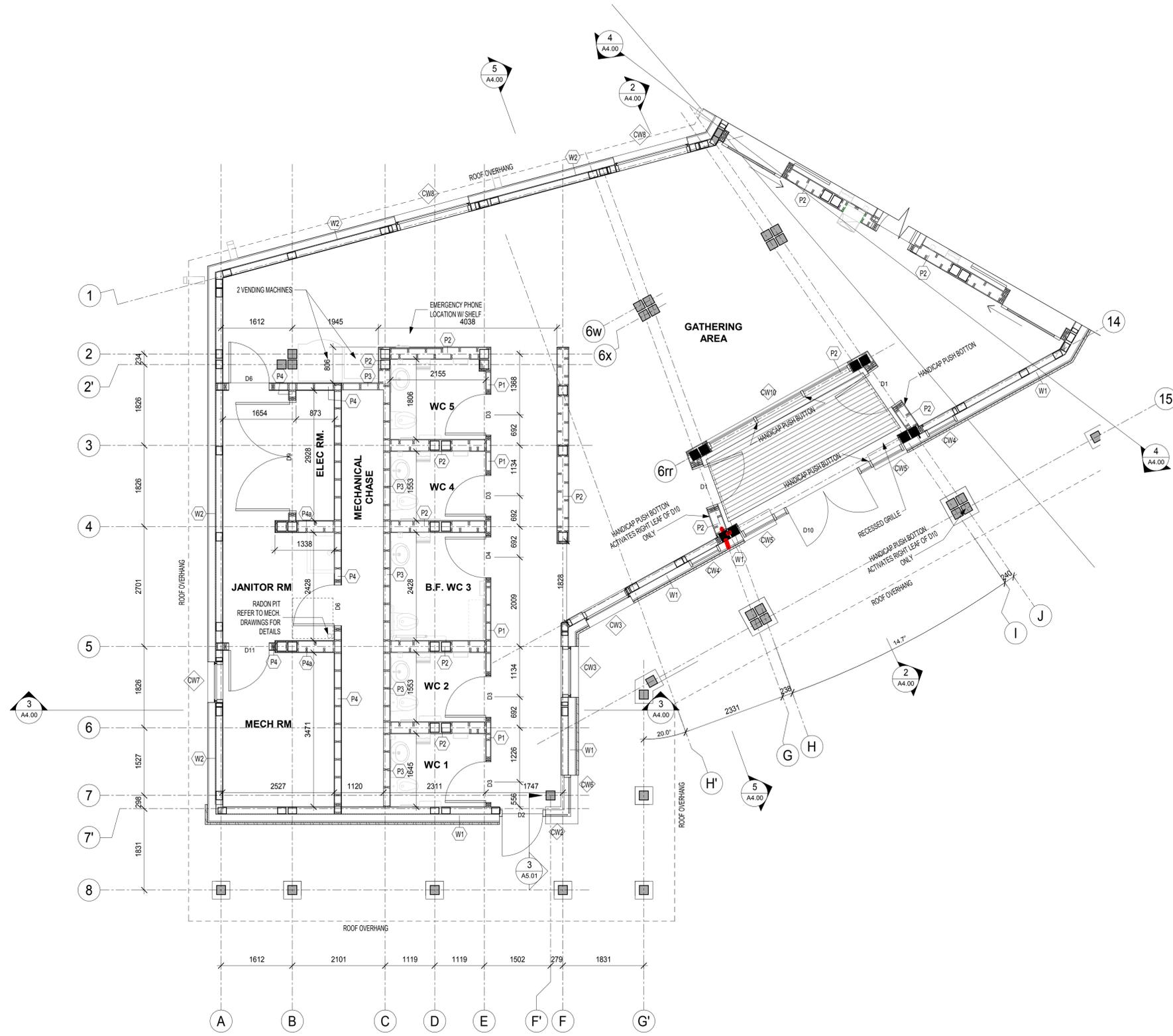
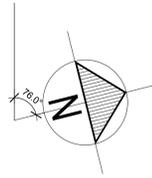
 Client / client: Parks Canada

Drawing title / Titre du dessin:

ROOF PLAN

Project No. / No. du projet: CAI 752	Sheet / Feuille: A2.03	Revision no. / La Révision no.: 4
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1 ENLARGED PLAN SOUTH WING
A2.04 SCALE: 1 : 50



Revision / Révision	Description / Description	Date / Date
4	ISSUED FOR TENDER	12-14-18
3	ISSUED FOR 99%	10-26-18
2	ISSUED FOR 90%	09-20-18
1	ISSUED FOR 60%	05-31-18

Client / client



Project title / Titre du projet

**ROGERS PASS WASHROOM
FACILITY AND DAY USE
AREA**

Approved by/Approuve par
AMINA OYAKHLOME

Designed by/Concept par
PETER SCHULZ

Drawn by/Dessiné par
MARAL SAFARZADEH
Project Manager/Administrateur de Projets
ANDREW OOSTING

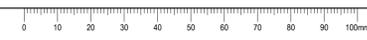
Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'ingénierie

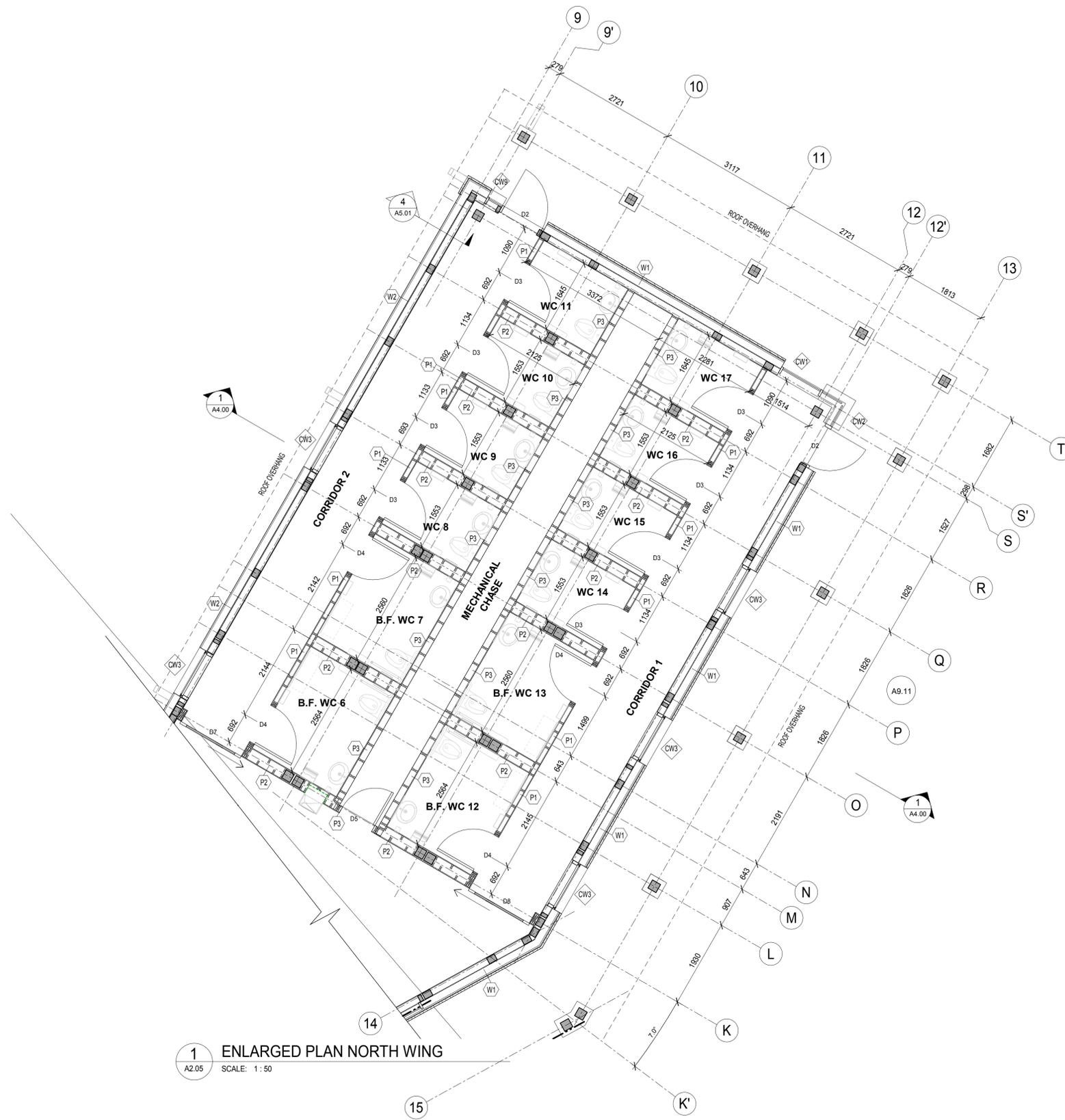
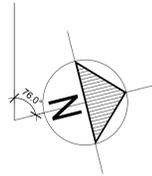
Client / client
Parks Canada

Drawing title / Titre du dessin

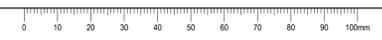
ENLARGED PLAN SOUTH WING

Project No. / No. du project	Sheet / Feuille	Revision no. / La Révision no.
CAI 752	A2.04	4





1 ENLARGED PLAN NORTH WING
 A2.05 SCALE: 1 : 50



Revision / Révision	Description / Description	Date / Date
4	ISSUED FOR TENDER	12-14-18
3	ISSUED FOR 99%	10-26-18
2	ISSUED FOR 90%	09-20-18
1	ISSUED FOR 60%	05-31-18

Client / client



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 FACILITY AND DAY USE
 AREA**

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 AMINA OYAKHLOME

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Project Manager / Administrateur de Projets
 ANDREW OOSTING

Architectural and Engineering Resources Manager /
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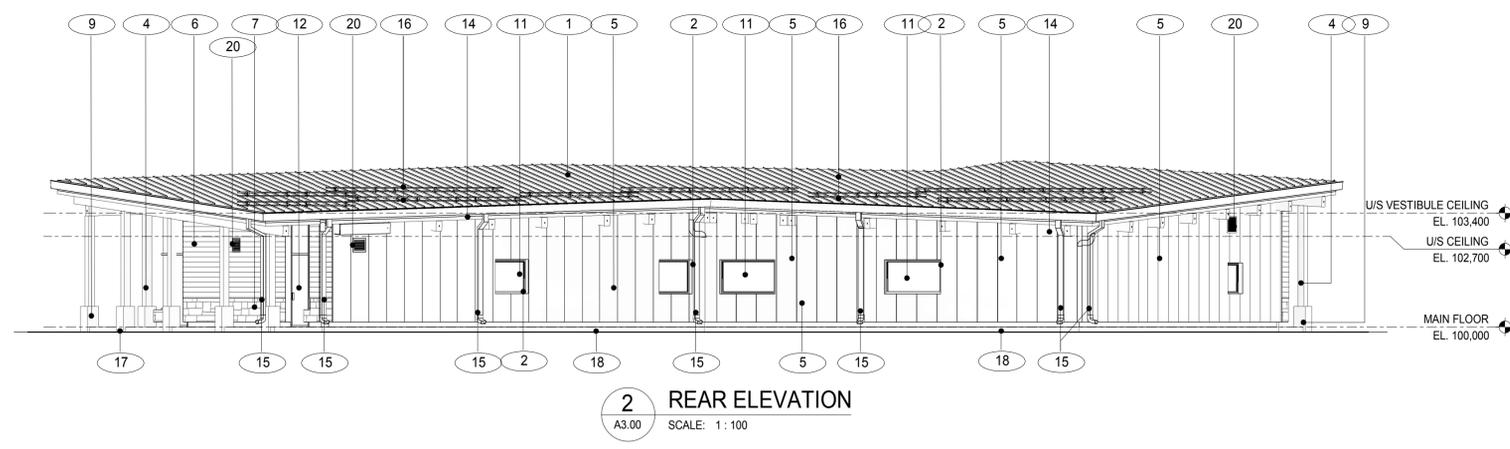
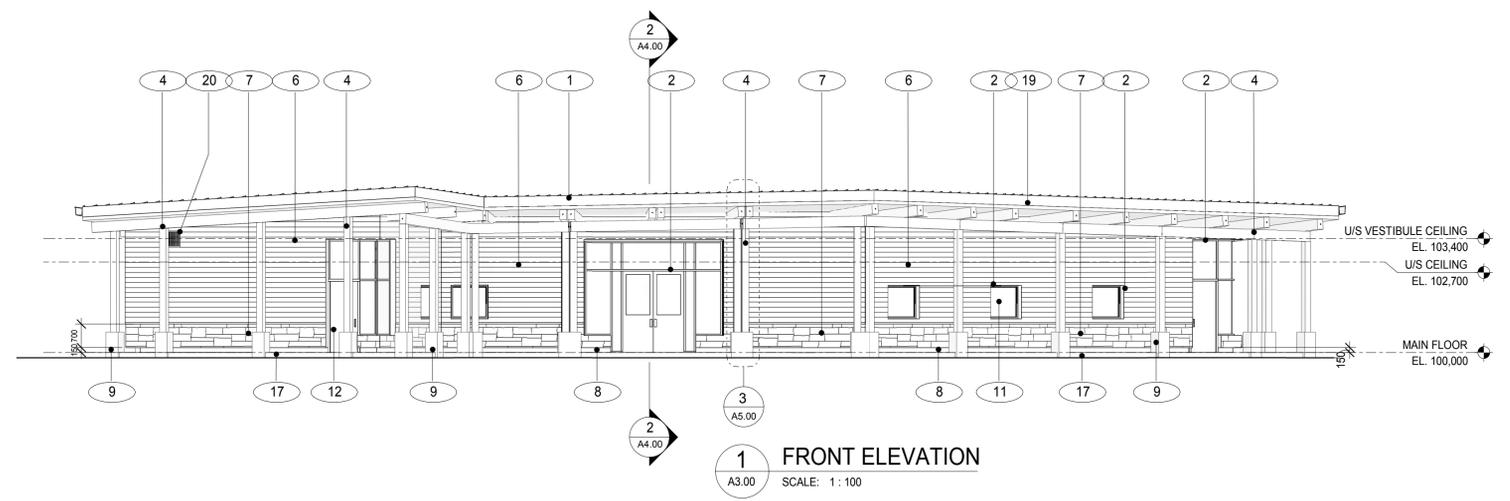
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Parks Canada

Drawing title / Titre du dessin

ENLARGED PLAN NORTH WING

Project No. / No. du project	Sheet / Feuille	Revision no. / La Révision no.
CAI 752	A2.05	4





ELEVATION MATERIAL LEGEND	
1	LOW SLOPE STANDING SEAM METAL ROOF - CHARCOAL OR SIMILAR AS APPROVED BY DEPARTMENTAL REPRESENTATIVE
2	CURTAIN WALL WINDOW
3	EXPOSED TIMBER BEAMS (AS PER STRUCTURAL) - FINISH DETERMINED BY DEPARTMENTAL REP
4	EXPOSED TIMBER COLUMNS (AS PER STRUCTURAL) - FINISH DETERMINED BY DEPARTMENTAL REP
5	VERTICAL METAL SIDING - COLOUR TO BE DETERMINED BY DEPARTMENTAL REPRESENTATIVE
6	ROUGH SAWN FIR WOOD CLAP BOARD HORIZONTAL SIDING. RESAWN 1 FACE #2 KNOTTY WESTERN RED CEDAR OR #2 GRADEV4E T&G KILN DRIED 11/16" X 6-3/4" FACE COVERAGE - 10' TO 14' LENGTHS
7	NATURAL STONE - LOCALLY SOURCED / AVAILABLE STONE MATERIAL
8	150mm SANDBLAST EXPOSED CONCRETE CURB
9	610mm SAND BLAST CONCRETE FOOTING
10	NOT IN USE
11	GLAZING - DOUBLE GLAZED SEALED UNIT C/W - LOW E-COATING
12	HOLLOW METAL INSULATED DOOR - PAINTED
13	ALUMINUM DOOR
14	ROOF GUTTER - COLOUR TO BE DETERMINED BY DEPARTMENTAL REPRESENTATIVE
15	DOWN SPOUT - COLOUR TO BE DETERMINED BY DEPARTMENTAL REPRESENTATIVE
16	SNOW GUARD. COLOUR - TO MATCH ROOF COLOUR
17	BRUSHED CONCRETE WALKWAY - LIGHT GREY
18	LOCALLY SOURCED 4"-6" SIZE ROCK INSTALLED ON FILTER FABRIC TO 100 mm DEPTH
19	CROSS LAMINATED TIMBER WOOD SOFFIT
20	LOUVER

Revision / Révision	Description / Description	Date / Date
5	ISSUED FOR TENDER	12-14-18
4	ISSUED FOR 99%	10-26-18
3	ISSUED FOR 90%	08-20-18
2	ISSUED FOR 60%	05-31-18
1	ISSUED FOR 30%	03-28-18

Client / client



Project title / Titre du projet

ROGERS PASS WASHROOM FACILITY AND DAY USE AREA

Approved by/ Approuvé par
AMINA OYAKHLOME

Designed by/ Concept par
PETER SCHULZ

Drawn by/ Dessiné par
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Project Manager/ Administrateur de Projets
ANDREW OOSTING

Architectural and Engineering Resources Manager/ Ressources Architecturales et de Directeur d'ingénierie

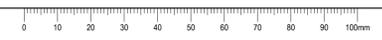
Client / client

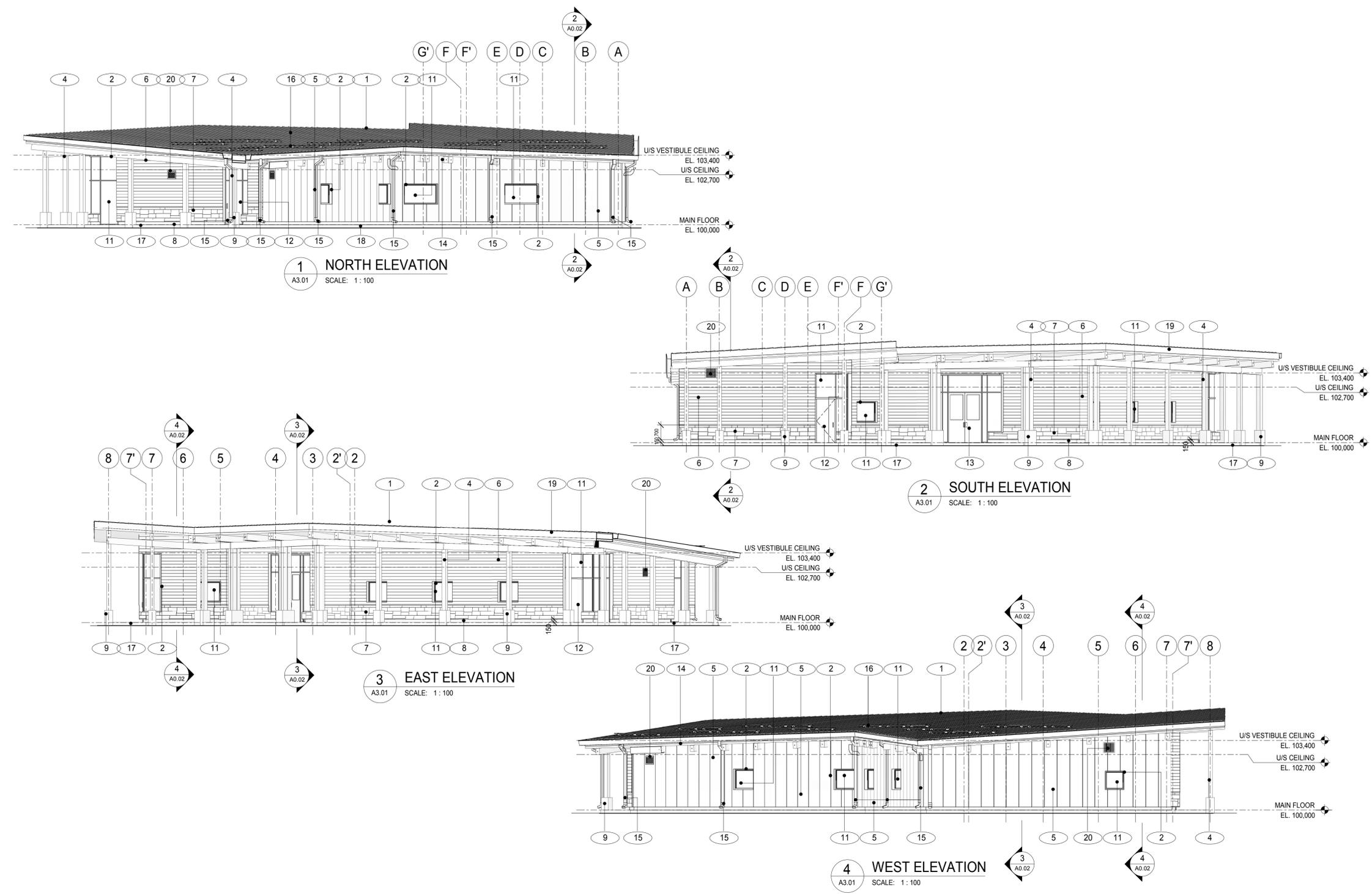
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Drawing title / Titre du dessin

EXTERIOR ELEVATIONS

Project No. / No. du projet CAI 752	Sheet / Feuille A3.00	Revision no. / La Révision no. 5
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ELEVATION MATERIAL LEGEND	
1	LOW SLOPE STANDING SEAM METAL ROOF - CHARCOAL OR SIMILAR AS APPROVED BY DEPARTMENTAL REPRESENTATIVE
2	CURTAIN WALL WINDOW
3	EXPOSED TIMBER BEAMS (AS PER STRUCTURAL) - FINISH DETERMINED BY DEPARTMENTAL REP
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Revision / Révision	Description / Description	Date / Date
4	ISSUED FOR TENDER	12-14-18
3	ISSUED FOR 95%	10-26-18
2	ISSUED FOR 90%	09-20-18
1	ISSUED FOR 60%	05-31-18

Client / client



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ROGERS PASS WASHROOM FACILITY AND DAY USE AREA

Approved by/Approuvé par
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Drawn by/Dessiné par
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Project Manager/Administrateur de Projets
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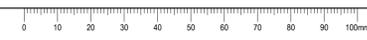
Architectural and Engineering Resources Manager/
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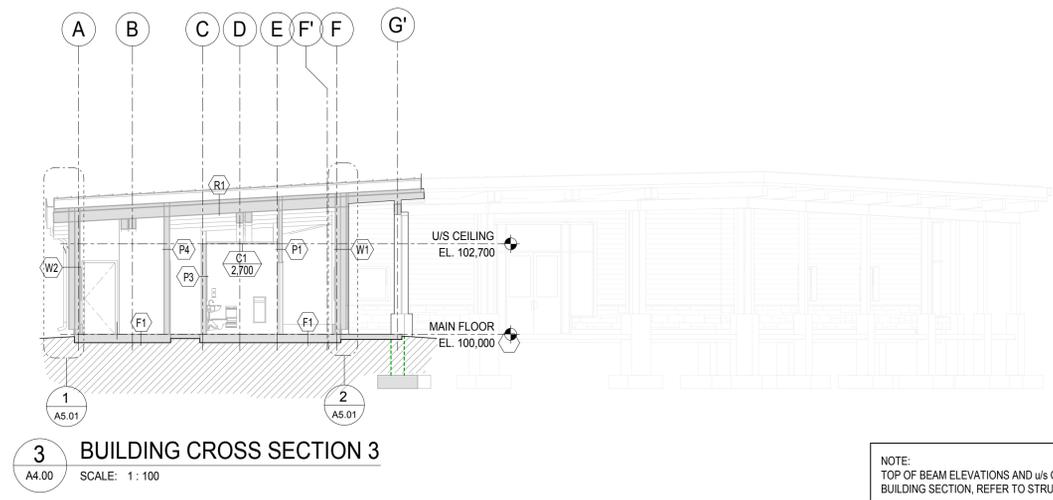
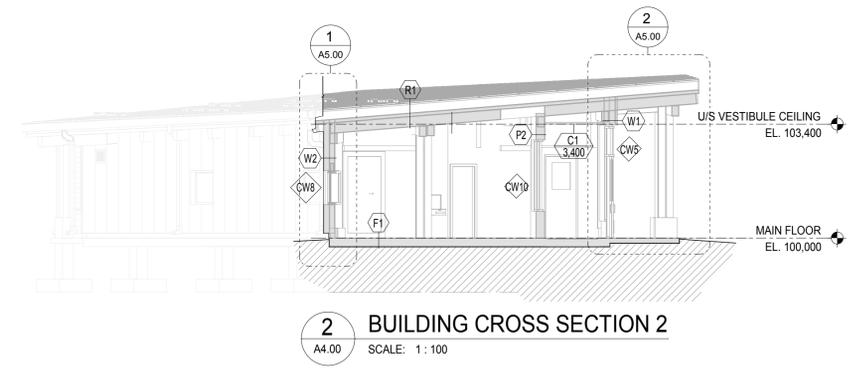
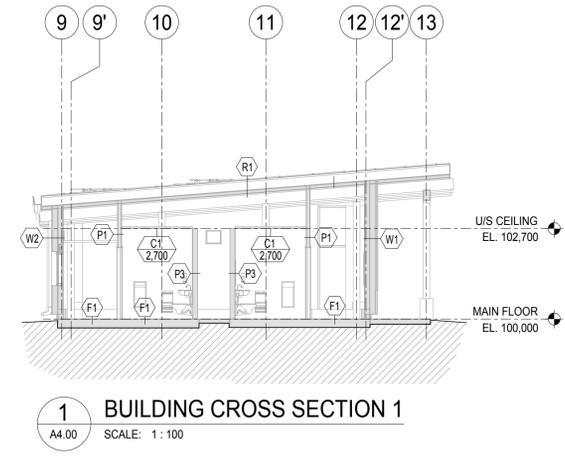
Client / client
Parks Canada

Drawing title / Titre du dessin

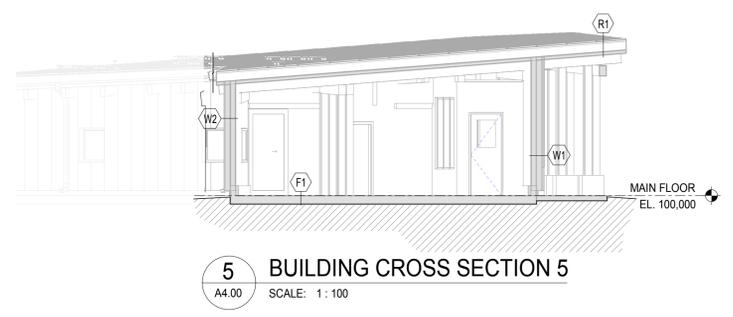
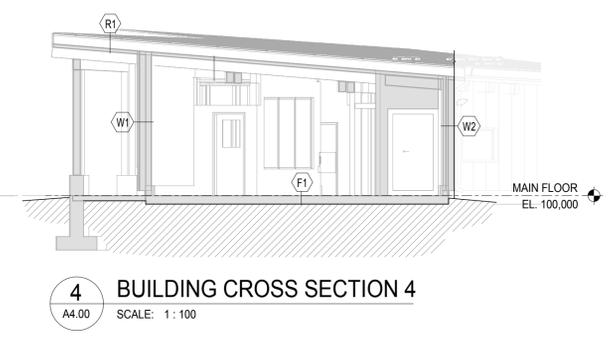
EXTERIOR ELEVATIONS

Project No. / No. du projet CAI 752	Sheet / Feuille A3.01	Revision no. / La Révision no. 4
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NOTE:
TOP OF BEAM ELEVATIONS AND U/S OF ROOF VARIES AND NOT INDICATED ON
BUILDING SECTION, REFER TO STRUCTURAL FOR ELEVATION POINTS.



Revision / Révision	Description / Description	Date / Date
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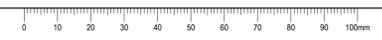
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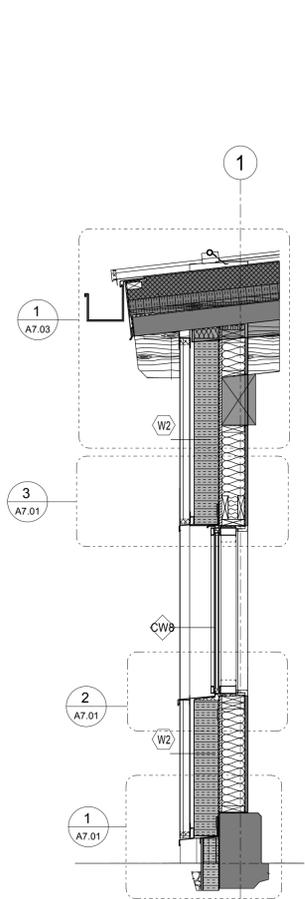
Client / client
Parks Canada

Drawing title / Titre du dessin

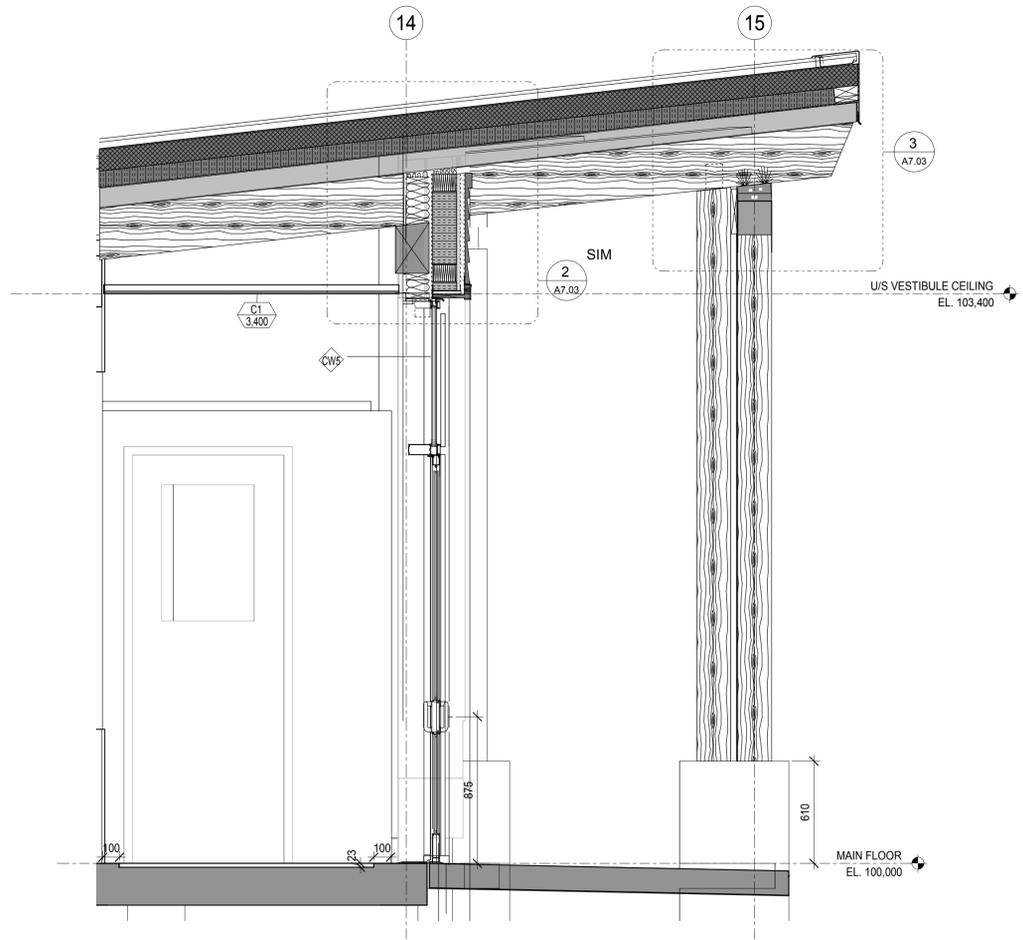
BUILDING SECTIONS

Project No. / No. du project CAI 752	Sheet / Feuille A4.00	Revision no. / La Révision no. 5
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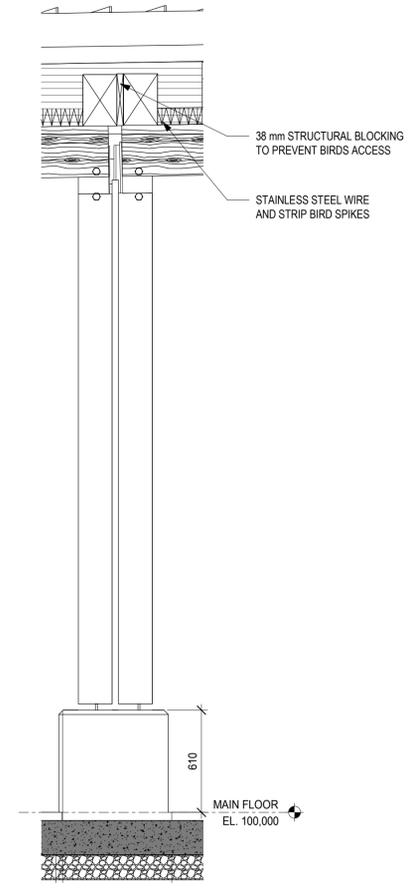




1 WALL SECTION 1
A5.00 SCALE: 1:20



2 WALL SECTION 2
A5.00 SCALE: 1:20



3 WALL SECTION 3
A5.00 SCALE: 1:20

Revision / Révision	Description / Description	Date / Date
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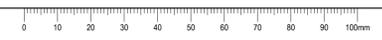
Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'ingénierie

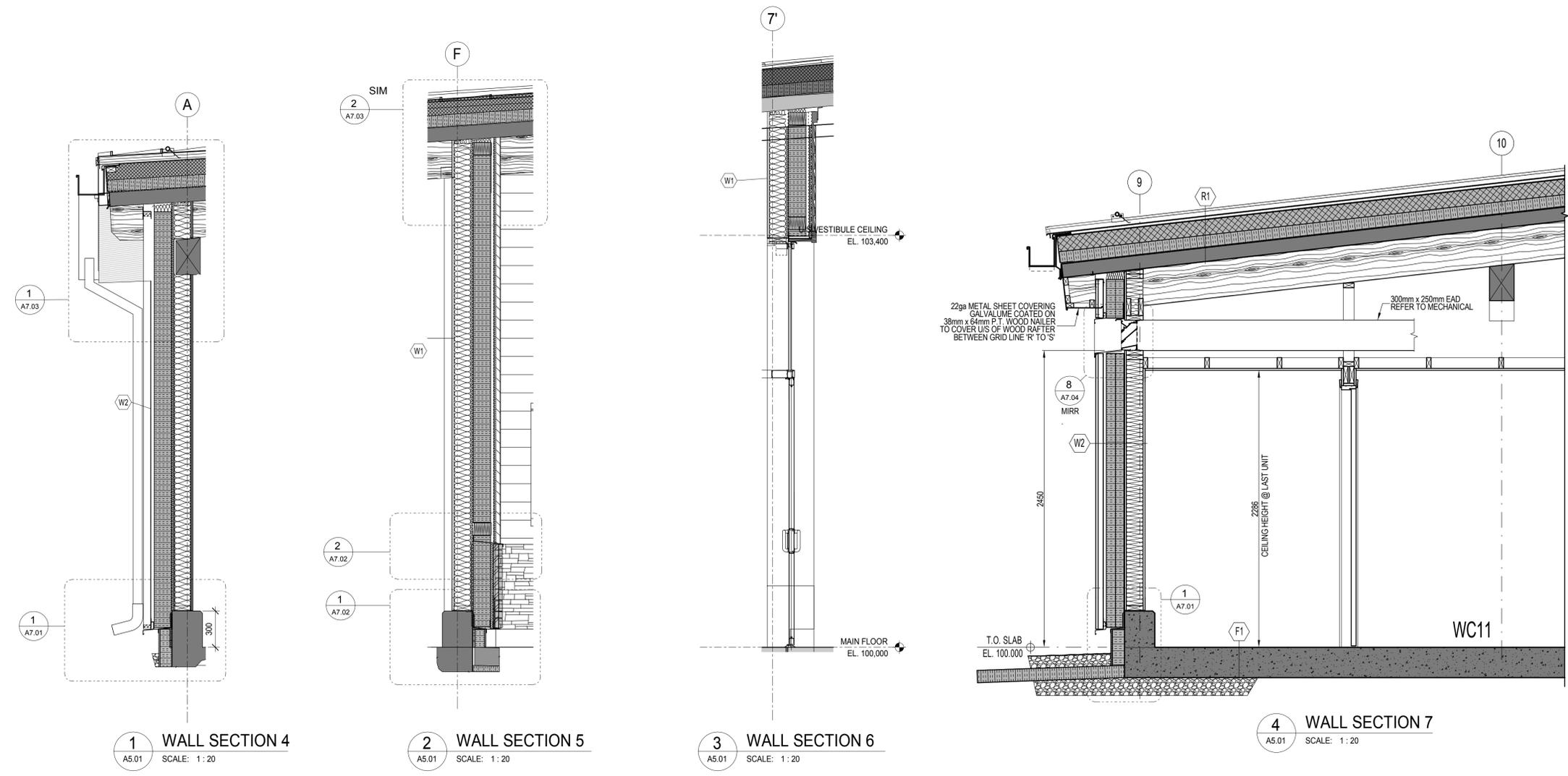
Client / client
Parks Canada

Drawing title / Titre du dessin

WALL SECTIONS

Project No. / No. du projet CAI 752	Sheet / Feuille A5.00	Revision no. / La Révision no. 4
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Revision / Révision	Description / Description	Date / Date
2	ISSUED FOR TENDER	12-14-18
1	ISSUED FOR 99%	10-26-18

Client / client



Project title / Titre du projet

ROGERS PASS WASHROOM FACILITY AND DAY USE AREA

Approved by/Approuvé par
AMINA OYAKHLOME

Designed by/Concept par
PETER SCHULZ

Drawn by/Dessiné par
MARAL SAFARZADEH

Project Manager/Administrateur de Projets
ANDREW OOSTING

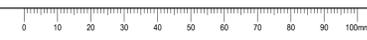
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Ressources Architectural et de Directeur d'ingénierie

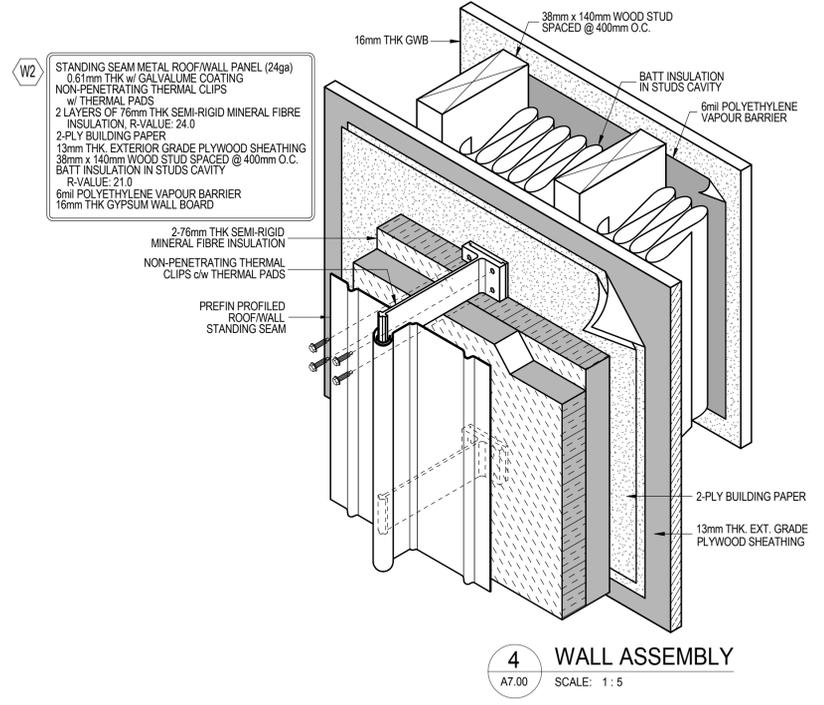
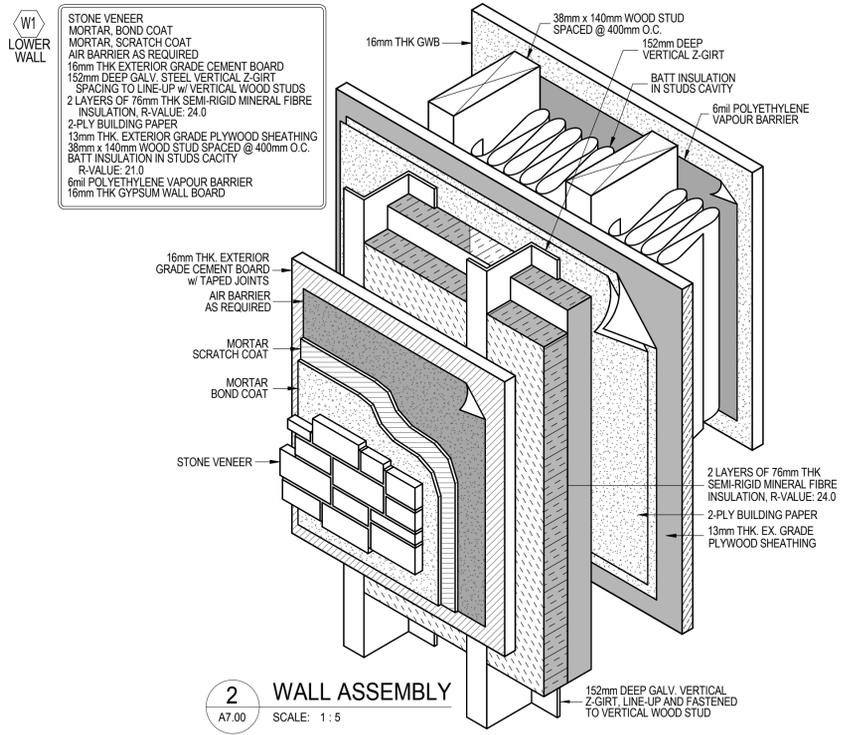
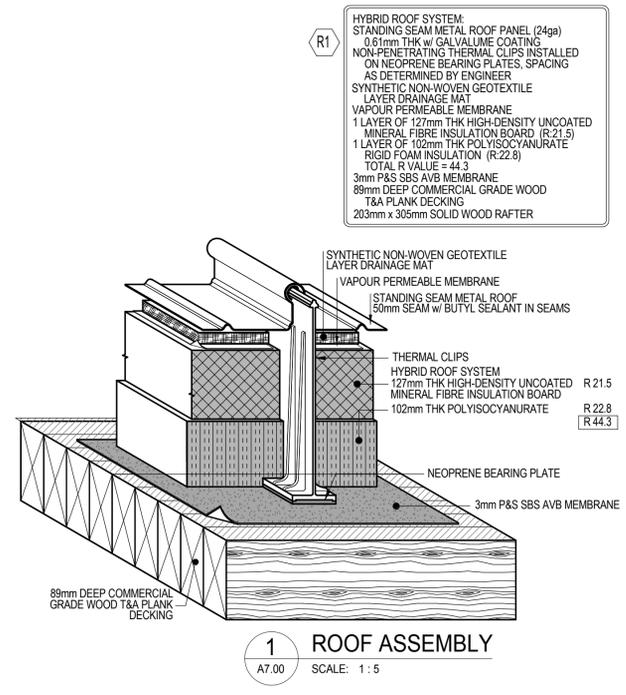
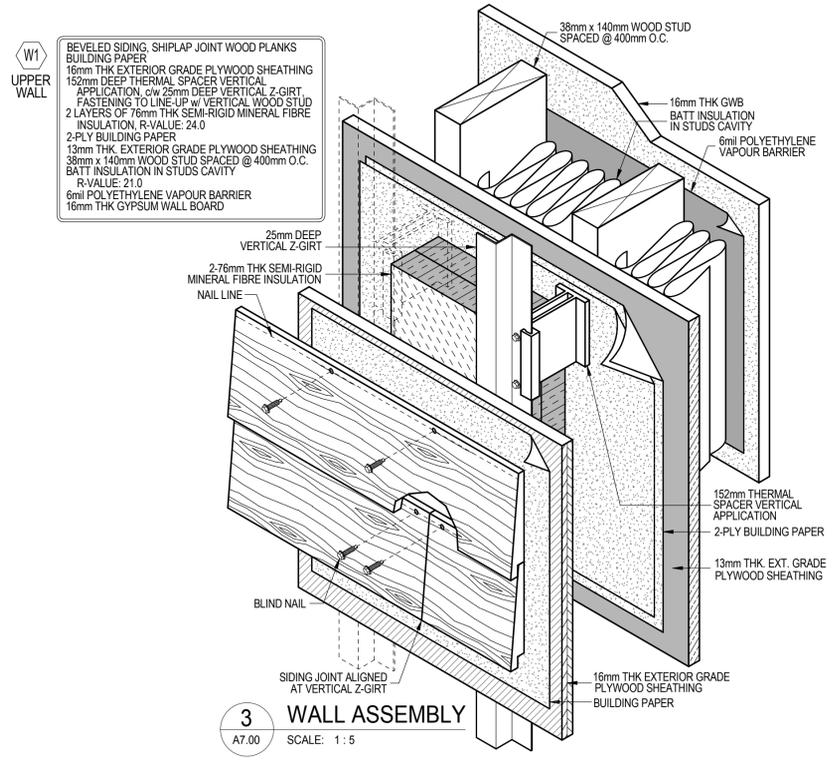
Client / client
Parks Canada

Drawing title / Titre du dessin

WALL SECTIONS

Project No. / No. du projet CAI 752	Sheet / Feuille A5.01	Revision no. / La Révision no. 2
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Revision / Révision	Description / Description	Date / Date
4	ISSUED FOR TENDER	12-14-18
3	ISSUED FOR 95%	10-26-18
2	ISSUED FOR 90%	09-20-18
1	ISSUED FOR 60%	05-31-18



Parks Canada
Parcs Canada

Project title / Titre du projet

ROGERS PASS WASHROOM FACILITY AND DAY USE AREA

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PETER SCHULZ

Drawn by/Dessiné par
PID DAYANON

Project Manager/Administrateur de Projets
ANDREW OOSTING

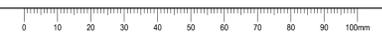
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Ressources Architecturales et de Directeur d'ingénierie

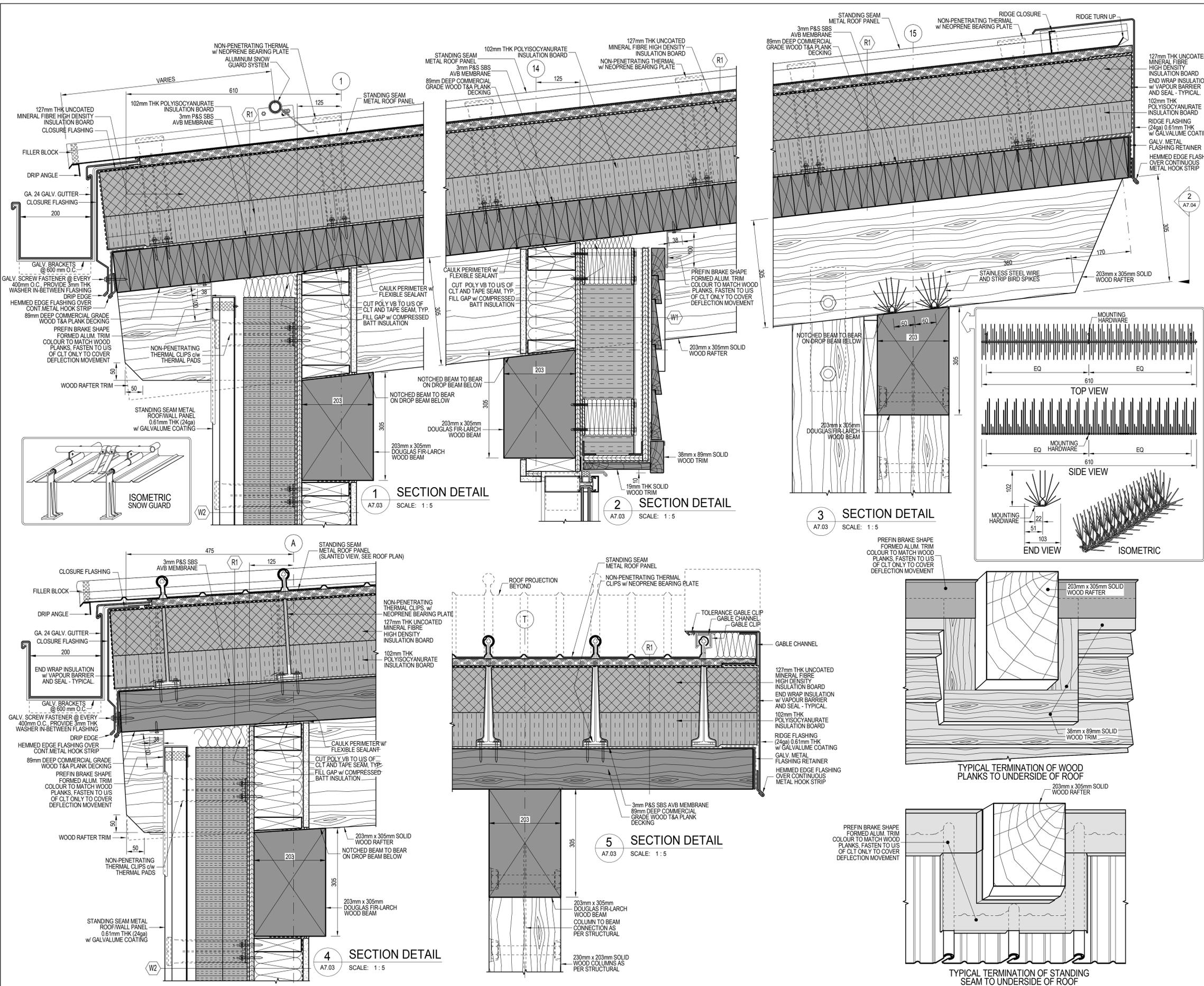
Client / client
Parks Canada

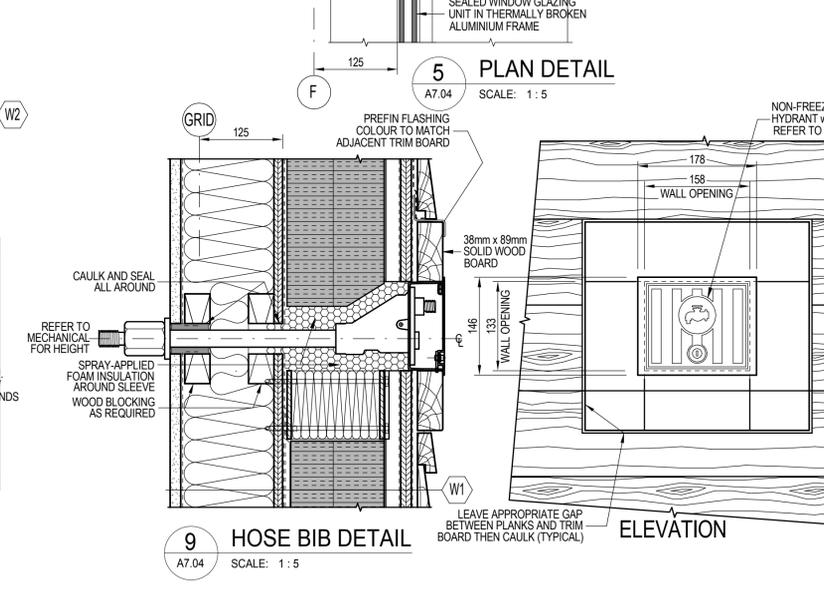
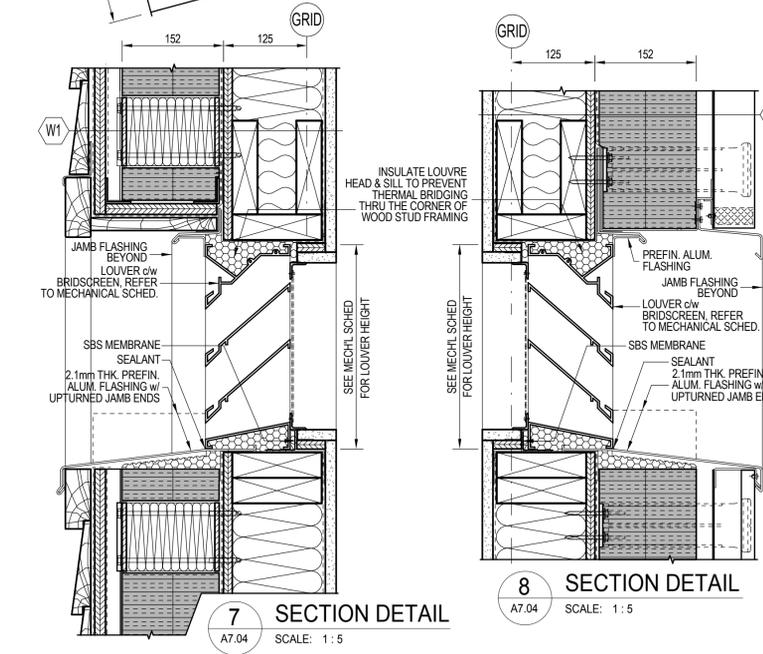
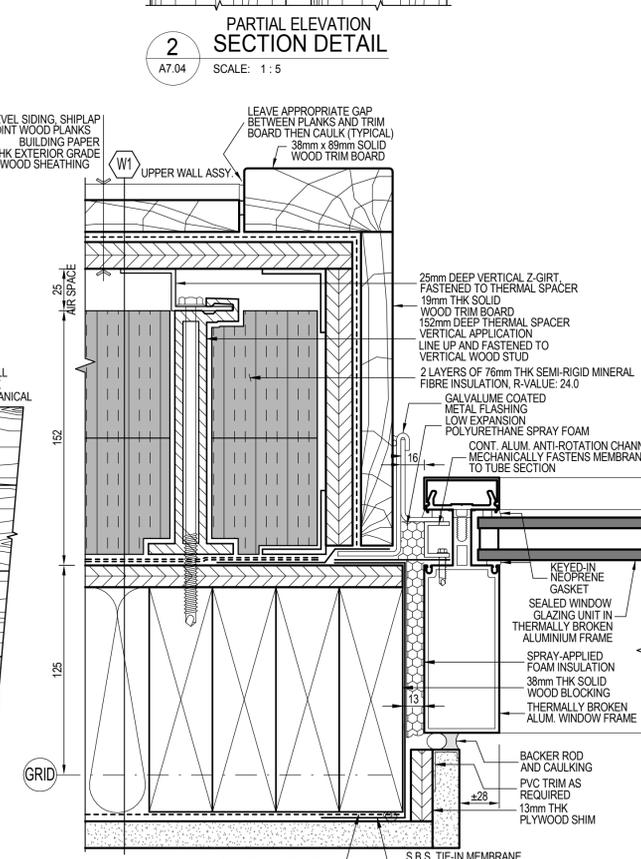
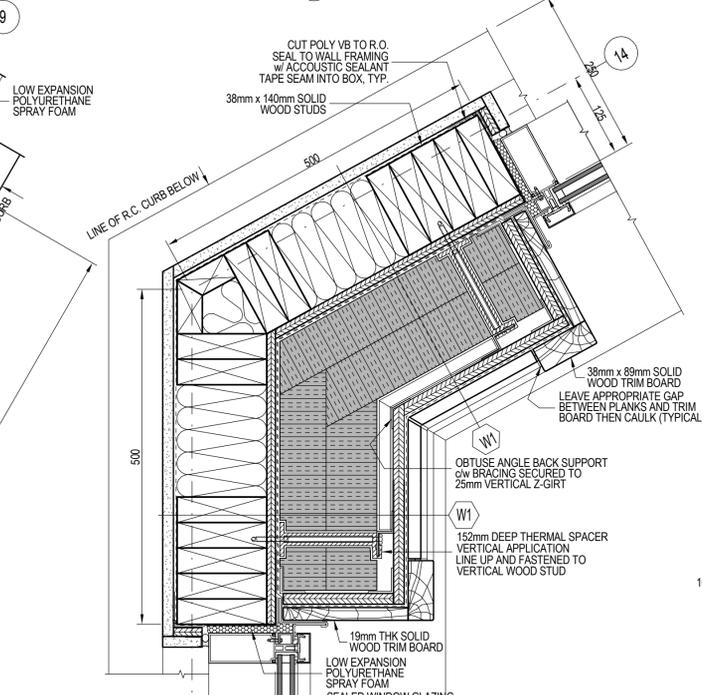
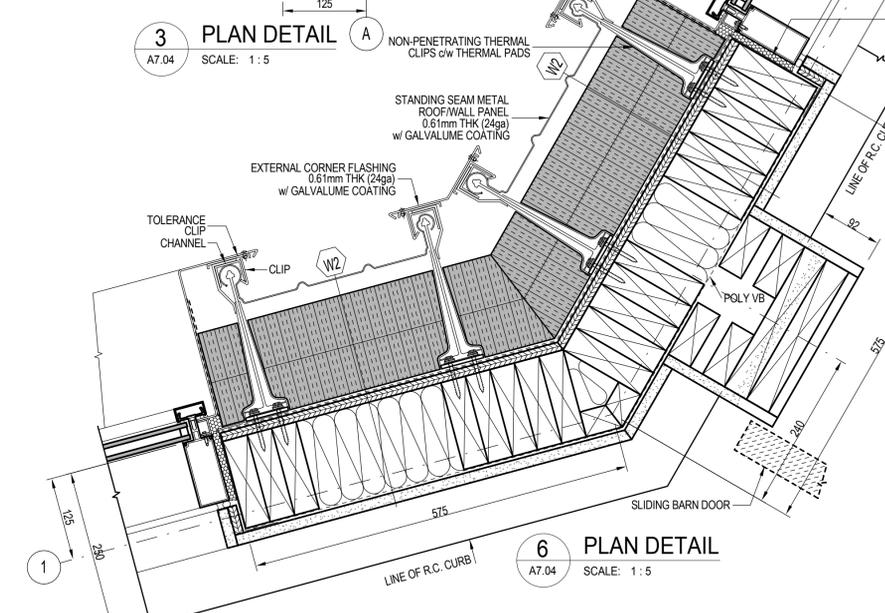
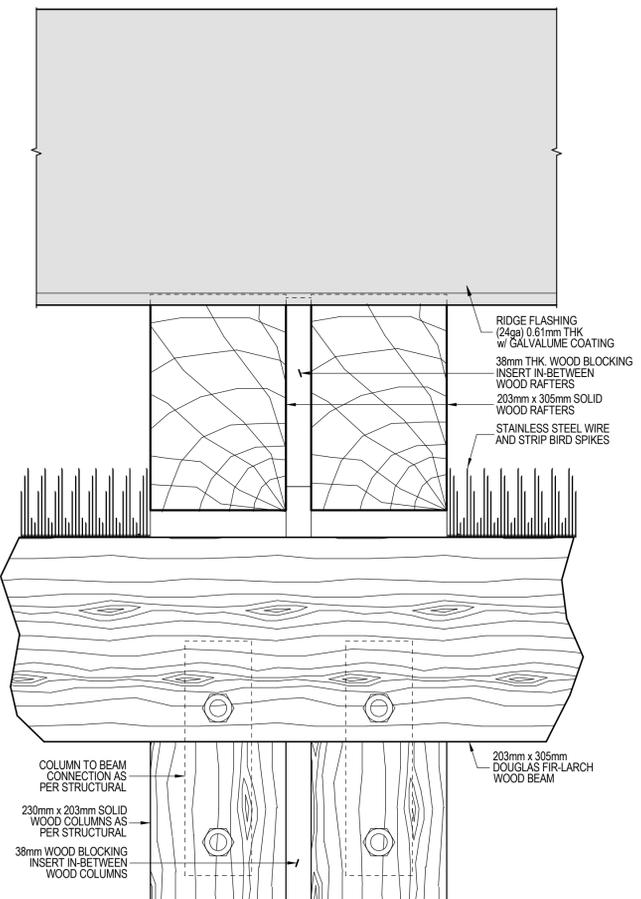
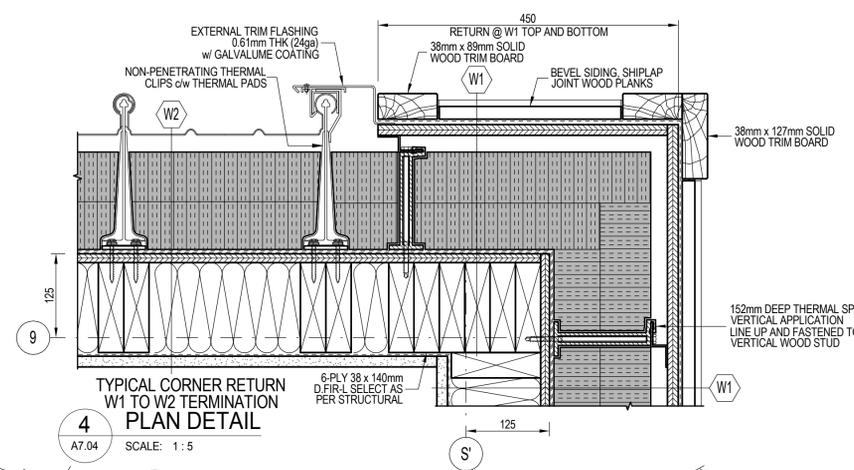
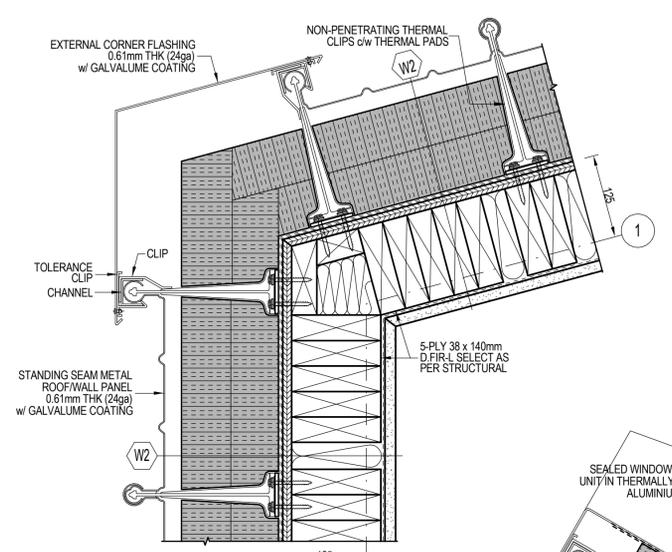
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DETAILS

Project No. / No. du projet	Sheet / Feuille	Revision no. / La Révision no.
CAI 752	A7.00	4







Revision / Révision	Description / Description	Date / Date
2	ISSUED FOR TENDER	12-14-18
1	ISSUED FOR 99%	10-26-18



ROGERS PASS WASHROOM FACILITY AND DAY USE AREA

Approved by/Approuvé par
AMINA OYAKHLOME

Designed by/Conçeut par
PETER SCHULZ

Drawn by/Dessiné par
PID DAYANON

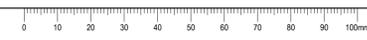
Project Manager/Administrateur de Projets
ANDREW OOSTING

Architectural and Engineering Resources Manager/
Ressources Architecturales et de Directeur d'ingénierie

Client / client
Parks Canada

Drawing title / Titre du dessin

Project No. / No. du projet	Sheet / Feuille	Revision no. / La Révision no.
CAI 752	A7.04	2





Revision / Révision	Description / Description	Date / Date
1	ISSUED FOR TENDER	12-14-18

Client / client
 Parks Canada Parcs Canada

Project title / Titre du projet

ROGERS PASS WASHROOM FACILITY AND DAY USE AREA

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AMINA OYAKHILOME

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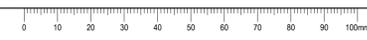
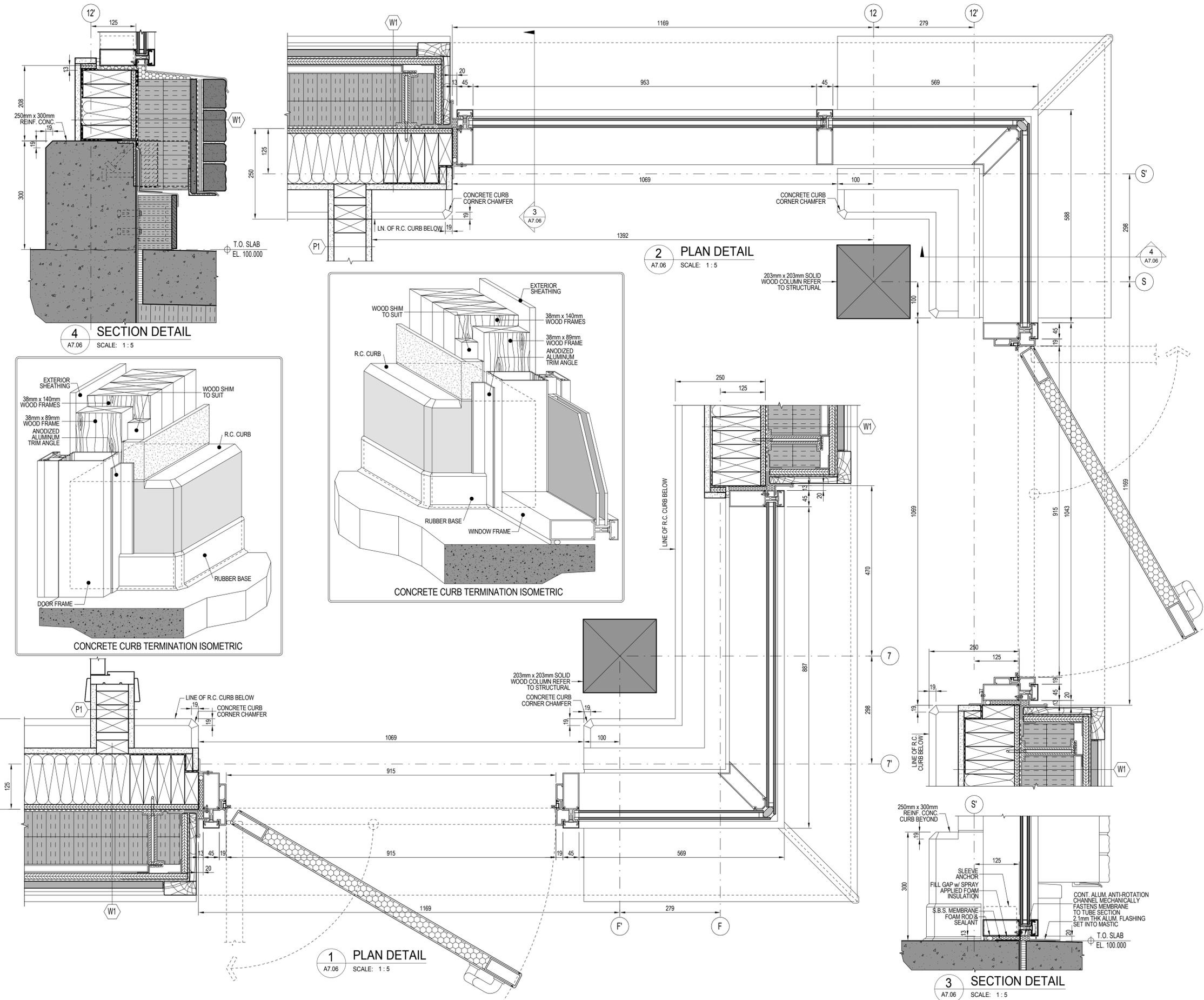
Architectural and Engineering Resources Manager /
Ressources Architecturale et de Directeur d'ingénierie

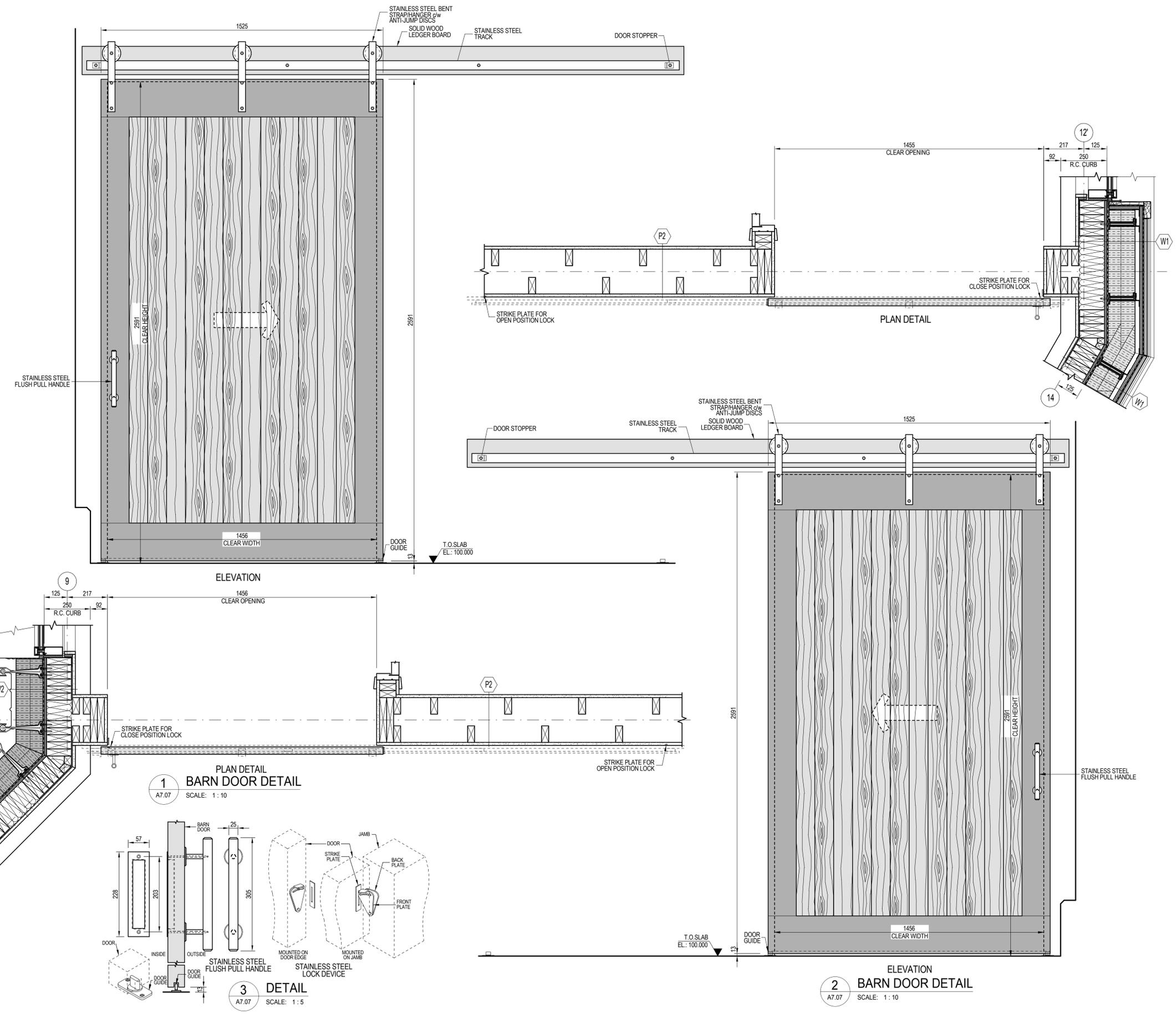
Client / client
Parks Canada

Drawing title / Titre du dessin

DETAILS

Project No. / No. du project	Sheet / Feuille	Revision no. / La Révision no.
CAI 752	A7.06	1





Revision / Révision	Description / Description	Date / Date
1	ISSUED FOR TENDER	12-14-18



Project title / Titre du projet

ROGERS PASS WASHROOM FACILITY AND DAY USE AREA

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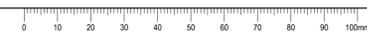
Architectural and Engineering Resources Manager/
Ressources Architecturale et de Directeur d'ingénierie

Client / client
Parks Canada

Drawing title / Titre du dessin

DETAILS

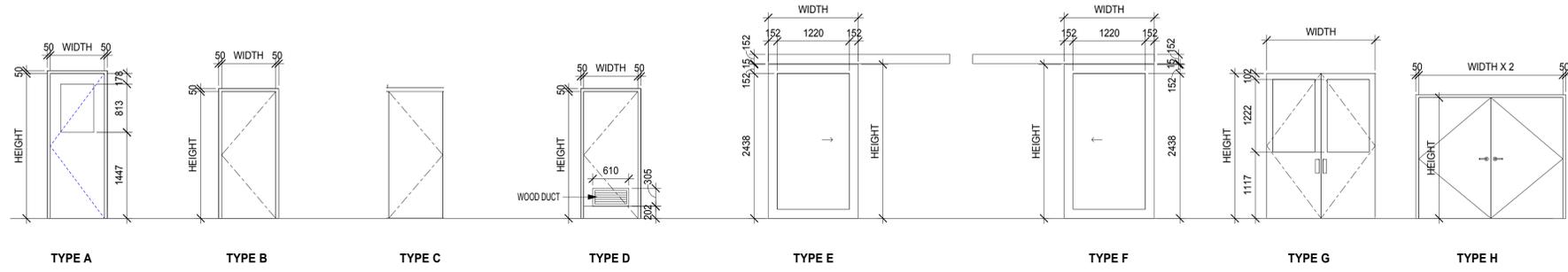
Project No. / No. du projet	Sheet / Feuille	Revision no. / La Révision no.
CAI 752	A7.07	1





DOOR SCHEDULE													
TYPE	DOOR NO.	HARDWARE GROUP	DOOR LEAF			SINGLE / PAIR	DOOR		FRAME		FIRE LABEL	DOOR GLASS	COMMENTS
			WIDTH	HEIGHT	THK		MATERIAL	FINISH	MATERIAL	FINISH			
A	D1	01	915	2,286	45	SINGLE	SCW	PT	WD	PT		TG	LAMINATED GLASS
C	D2	02	915	2,286	45	SINGLE	HI	PT	ALUM	ANOD			LAMINATED GLASS
D	D3	03	915	2,134	45	SINGLE	SCW	PT	WD	PT			COLOR INTEGRATED AND RED/GREEN OCCUPANCY SENSOR
D	D4	03	915	2,134	45	SINGLE	SCW	PT	WD	PT			COLOR INTEGRATED AND RED/GREEN OCCUPANCY SENSOR
B	D5	04	815	2,134	45	SINLGE	WD	PT	WD	PT			
B	D6	05	915	2,134	45	SINGLE	HM	PT	STF	PT	45MIN		
E	D7	06	1,525	2,650	45	SINGLE	SCW	PT	WD	PT			
F	D8	06	1,525	2,650	45	SINGLE	SCW	PT	WD	PT			
H	D9	07	2,438	2,032	45	DOUBLE	HM	PT	STF	PT	45MIN		
G	D10	08	1,835	2,441	45	DOUBLE	ALUM	ANOD	ALUM	ANOD		DGIU	LAMINATED GLASS
B	D11	05	915	2,134	45	SINGLE	HM	PT	STF	PT	45MIN		

ALUM	ALUMINIUM
ANOD	ANODIZED
DGIU	DOUBLE GLAZED INSULATED UNIT
HM	HOLLOW METAL DOOR
HI	HOLLOW INSULATED METAL DOOR
PT	PAINT
STF	STEEL FRAME
SCW	SOLID CORE WOOD DOOR
TG	TEMPERED GLASS
WD	WOOD FRAME
EXTERIOR DOORS: D2 & D10	



**HARDWARE GROUP NO. 1
FOR USE ON DOOR #(S)
D1**

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
4	EA HINGE	5BB1HW 114x102MM	652	IVE
1	EA DOOR PULL, 1" ROUND	8103EZHD 305MM I	630-316	IVE
1	EA PUSH PLATE	8200 150x405MM	630	IVE
1	EA OH STOP	100S ADJ	630	GLY
1	EA SURF. AUTO OPERATOR	9542 MS	ANCLR	LCN
1	EA ROCKER SWITCH	8310-806R	689	LCN
2	EA ACTUATOR, WALL MOUNT	8310-856	689	LCN
2	EA ESCUTCHEON	8310-874	689	LCN
1	EA MOUNTING PLATE	9540-18	689	LCN
1	EA KICK PLATE	8400 255MM X 40MM LDW B-CS	630	IVE

**HARDWARE GROUP NO. 2
FOR USE ON DOOR #(S)
D2**

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA HINGE	5BB1HW 114x102MM NRP	652	IVE
1	EA PANIC HARDWARE	98-L-03-1439	626	VON
1	EA SURFACE CLOSER	4040XP SCUSH	689	LCN
1	EA KICK PLATE	8400 255MMx40MM LDW B-CS	630	IVE
1	EA WEATHERSTRIP BY DOOR SUPPLIER	8197AA	AA	ZER
1	EA DOOR SWEEP W/RAIN DRIP	625A-V3-223	A	ZER

**HARDWARE GROUP NO. 3
FOR USE ON DOOR #(S)
D3 AND D4**

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA HINGE	5BB1HW 114x102MM	652	IVE
1	EA PRIVACY W/INDICATOR	L9056P 03B L283-722 I23-363	626	SCH
1	EA KICK PLATE	8400 255MM x 40MM LDW B-CS	630	IVE
1	EA WALL STOP	WS401/402CVX	626	IVE

**HARDWARE GROUP NO. 4
FOR USE ON DOOR #(S)
D5**

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA HINGE	5BB1HW 114x102MM	652	IVE
1	EA STOREROOM LOCK	L9056P 03B	626	SCH
1	EA SURFACE CLOSER	1461 REG	689	LCN
1	EA KICK PLATE	8400 255MM x 40MM LDW B-CS	630	IVE
1	EA WALL STOP	WS401/402CVX	626	IVE

**HARDWARE GROUP NO. 5
FOR USE ON DOOR #(S)
D11 AND D6**

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA HINGE	5BB1HW 114x102MM	652	IVE
1	EA STOREROOM LOCK	L9080P 03B	626	SCH
1	EA SURFACE CLOSER	1461 REG	689	LCN
1	EA KICK PLATE	8400 255MM x 40MM LDW B-CS	630	IVE
1	EA WALL STOP	WS401/402CVX	626	IVE
1	EA GASKETING	188SBK PSA	BSK	ZER

**HARDWARE GROUP NO. 6
FOR USE ON DOOR #(S)
D7 & D8**

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA 1 DR TRACK KIT COMPLETE	CCS-3-810 X SIZE OF OPENING		KNC
1	EA SNAP ON FASCIA	CC-980		KNC
2	EA END CAP	CC-980		KNC
1	EA CYL OPERATED FLUSHBOLT	1877 (BTM LOCK)	626	ADA
1	EA MORTISE SLIDING DOOR LOCK	C-92-L-HL		KNC
1	EA MORTISE CYLINDER	20-013 114	626	SCH
1	EA DOOR PULL, 1" ROUND	PR 8103HD 255MM N	630	IVE

**HARDWARE GROUP NO. 7
FOR USE ON DOOR #(S)
D9**

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA HINGE	5BB1 114X102MM NRP	652	IVE
1	SET CONST LATCHING BOLT	FB51P	630	IVE
1	EA DUST PROOF STRIK	DP2	626	IVE
1	EA STOREROOM LOCK	L9080P 03B	626	SCH
1	EA COORDINATOR	COR X FL	628	IVE
2	EA SURFACE CLOSER	1461 REG	689	LCN
1	EA GASKETING	188SBK PSA	BK	ZER
1	EA MEETING STILE	44STST	STST	ZER

**HARDWARE GROUP NO. 8
FOR USE ON DOOR #(S)
D10**

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA CONT. HINGE	027XY	628	IVE
1	EA CONT. HINGE	027XY EPT	628	IVE
1	EA POWER TRANSFER	EPT10 CON	689	VON
1	EA FIRE EXIT HARDWARE	9849-L-F-03 4'	626	VON
1	EA ELEC FIRE EXIT HARDWARE	QEL-9849-L-F-03-CON 4'	626	VON
1	EA OH STOP	100S	630	GLY
1	EA OH STOP	100S ADJ	630	GLY
1	EA SURFACE CLOSER	4021	689	LCN
1	EA SURF. AUTO OPERATOR	9542 MS	ANCLR	LCN
1	EA MOUNTING PLATE	4020-18G	689	LCN
1	EA WEATHER RING	8310-800	BLK	LCN
1	EA ROCKER SWITCH	8310-806R	689	LCN
2	EA ACTUATOR, WALL MOUNT	8310-856	630	LCN
2	EA ESCUTCHEON	8310-874	689	LCN
1	EA MOUNTING PLATE	9540-18	689	LCN
1	EA WEATHERSTRIP BY DOOR SUPPLIER	8197AA	AA	ZER
2	EA DOOR SWEEP W/RAIN DRIP	625A-V3	A	ZER
1	EA THRESHOLD	625A-V3	A	ZER
1	EA WIRE HARNESS	CON-TO SUIT		SCH
1	EA SIRE HARNESS	CON-6W		SCH
1	EA POWER SUPPLY	PS902 900-4RL	LGR	SCE

Revision / Révision	Description / Description	Date / Date
4	ISSUED FOR TENDER	12-14-18
3	ISSUED FOR 99%	10-26-18
2	ISSUED FOR 90%	09-20-18
1	ISSUED FOR 60%	05-31-18

Client / client



Project title/Titre du projet

**ROGERS PASS WASHROOM
FACILITY AND DAY USE
AREA**

Approved by/Approuvé par
AMINA OYAKHLOME

Designed by/Conçue par
PETER SCHULZ

Drawn by/Dessiné par
MARAL SAFARZADEH

Project Manager/Administrateur de Projets
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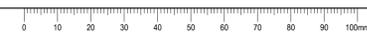
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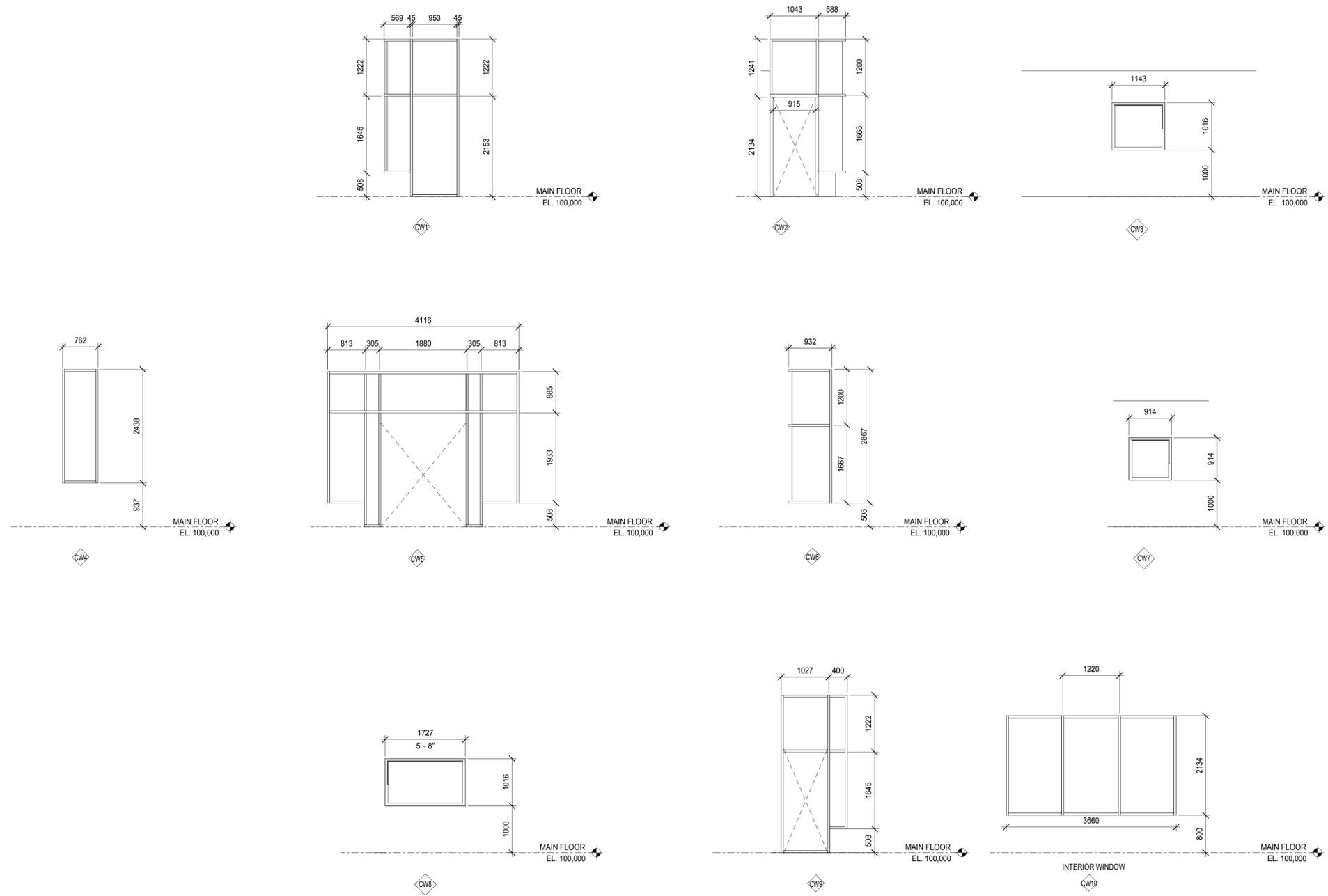
Client / client
Parks Canada

Drawing title / Titre du dessin

DOOR SCHEDULE

Project No. / No. du projet	Sheet / Feuille	Revision no. / La Révision no.
CAI 752	A9.00	4





NOTE: ALL THE WINDOWS EXCEPT FOR CW10 ARE CURTAIN WALL WINDOW WITH DOUBLE GLAZED SEALED UNIT CW - LOW-E-COATING
 CW10 IS METAL CLAD WOOD WINDOW FRAME WITH CLEAR GLAZING - LOW-E-COATING

Revision / Révision	Description / Description	Date / Date
3	ISSUED FOR TENDER	12-14-18
2	ISSUED FOR 99%	10-17-18
1	ISSUED FOR 90%	08-20-18

Client / client



Project title / Titre du projet

**ROGERS PASS WASHROOM
 FACILITY AND DAY USE
 AREA**

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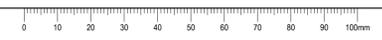
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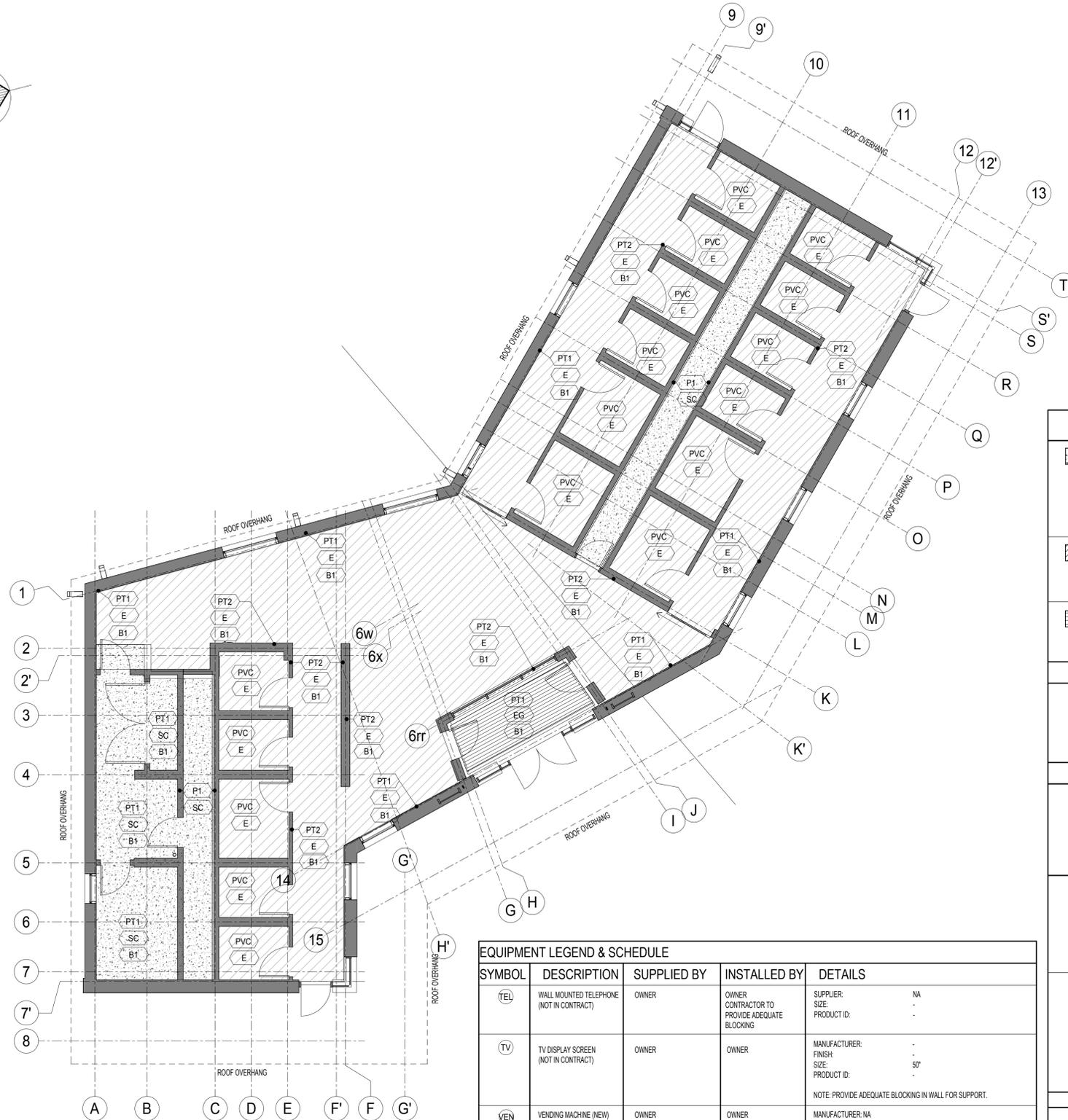
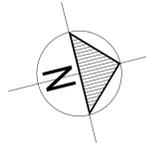
Client / client
Parks Canada

Drawing title / Titre du dessin

WINDOW SCHEDULE

Project No. / No. du projet CAI 752	Sheet / Feuille A9.11	Revision no. / La Révision no. 3
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1 MAIN FLOOR FINISHES PLAN
ID1.00 SCALE: 1:75

EQUIPMENT LEGEND & SCHEDULE				
SYMBOL	DESCRIPTION	SUPPLIED BY	INSTALLED BY	DETAILS
(TEL)	WALL MOUNTED TELEPHONE (NOT IN CONTRACT)	OWNER	OWNER	SUPPLIER: NA SIZE: - PRODUCT ID: -
(TV)	TV DISPLAY SCREEN (NOT IN CONTRACT)	OWNER	OWNER	MANUFACTURER: - FINISH: - SIZE: 50" PRODUCT ID: - NOTE: PROVIDE ADEQUATE BLOCKING IN WALL FOR SUPPORT.
(VEN)	VENDING MACHINE (NEW) (NOT IN CONTRACT)	OWNER	OWNER	MANUFACTURER: NA FINISH: - SIZE: 35" (W) X 72" (H) X 28" (D) PRODUCT ID: -
(WF)	ELECTRIC WATER COOLER (BARRIER FREE) W/ BOTTLE FILLING STATION	CONTRACTOR	CONTRACTOR	MANUFACTURER: NA FINISH: STAINLESS STEEL COLOR: LIGHT GRAY SIZE: 19" (W) X 38-5/8" (H) X 18-3/8" (L) MOUNTING TYPE: WALL COOLER/FOUNTAIN ACTIVATION: EASY-TOUCH PUSH BARS NOTE: PROVIDE ADEQUATE BLOCKING IN WALL FOR SUPPORT; WALL MOUNT SHALL BE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE AND MEET CSA B651 BARRIER FREE STANDARD
(MS)	MOP SINK - FLOOR MOUNTED MOULDED STONE - TYPE: HIGH-DENS. COMPOSITE	CONTRACTOR	CONTRACTOR	MANUFACTURER: NA FINISH: MOULDED STONE, W/ STAINLESS STEEL DRAIN BODY SIZE: 915 mm W X 610 mm D X 254 mm H PRODUCT ID: NA

INTERIOR FINISHES SCHEDULE		
FLOOR FINISHES		
	SC	PRODUCT TYPE: SEALED CONCRETE WITH EPOXY COATING FINISHER: MATT FINISH CLASS 1 (LOW REFLECTIVITY 400 GRIT) NATURAL FINISH WITH SEALER OR CLEAR COAT TO BE DETERMINED BY DEPARTMENT REPRESENTATIVE LOCATION: AS PER FINISHES PLAN NOTE: ENSURE CONCRETE IS SMOOTH / CLEAN PRIOR TO APPLICATION
	E	PRODUCT TYPE: EPOXY FLOOR FINISH FINISHER: MATT FINISH COLOR: TO BE DETERMINED BY DEPARTMENT REPRESENTATIVE LOCATION: AS PER FINISHES PLAN NOTE: SLIP RESISTANT AND RESISTANT TO OIL/GREASE
	EG	PRODUCT TYPE: ENTRANCE GRATE WITH CORAL INSERTS COLOR: TO BE DETERMINED BY DEPARTMENT REPRESENTATIVE LOCATION: ENTRANCE VESTIBULE
WALL BASE FINISHES		
	B1	PRODUCT TYPE: RUBBER RESILIENT BASE BOARD COLOR: TO BE DETERMINED BY DEPARTMENT REPRESENTATIVE HEIGHT: 4" THICKNESS: 0.125" LOCATION: AS PER FINISHES PLAN
WALL FINISHES		
	PT1	PRODUCT TYPE: EGGSHELL HIGH DURABILITY SCRUBBABLE PAINT - LOW V.O.C COLOR NAME: TO BE DETERMINED BY DEPARTMENT REPRESENTATIVE FINISH: EGGSHELL HIGH-DURABILITY LOCATION: AS PER FINISHES PLAN NOTE: ENSURE NO VISIBLE STREAKING
	PT2	PRODUCT TYPE: EGGSHELL HIGH DURABILITY SCRUBBABLE PAINT - LOW V.O.C COLOR NAME: TO BE DETERMINED BY DEPARTMENT REPRESENTATIVE FINISH: EGGSHELL HIGH-DURABILITY LOCATION: AS PER FINISHES PLAN NOTE: ENSURE NO VISIBLE STREAKING
	PVC	PRODUCT TYPE: PVC WALL COVERING SURFACE TREATMENT: ALTRO WHITEROCK OR APPROVED EQUIVALENT COLOR NAME: TO BE DETERMINED BY DEPARTMENT REPRESENTATIVE THICKNESS: 1/10" LENGTH: 118" WIDTH: 48" LOCATION: ALL WASHROOMS NOTE: INSTALL PVC COVERING UP TO 58" HEIGHT WITH EDGER. PT2 FOR THE REST OF THE WALL SURFACE
FINISHES NOTES		
NOTES: 1. ALL FINISHES TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS 2. SEE INTERIOR FINISH SCHEDULE FOR FLOOR, WALL, & MILLWORK FINISH SPECIFICATIONS. 3. ALL FLOOR FINISHES TO TERMINATE AT CENTRE LINE OF DOOR SLAB. 4. REFER TO INTERIOR FINISHES SCHEDULE FOR TRANSITION STRIP INFORMATION. 5. PROVIDE SAMPLES TO DESIGNER FOR APPROVALS 6. GAPS BETWEEN COLUMN PLATE AND FLOOR SHALL BE FILLED AND SEALED WITH MOULD RESISTANCE SEALANT 7. ALL COLUMNS ARE ROUGH SAWN		



Revision / Révision	Description / Description	Date / Date
5	ISSUED FOR TENDER	12-14-18
4	ISSUED FOR 99%	10-26-18
3	ISSUED FOR 90%	08-20-18
2	ISSUED FOR 60%	05-31-18
1	ISSUED FOR 30%	03-28-18



Project title / Titre du projet
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Approved by / Approuvé par
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Designed by / Conçue par
PETER SCHULZ

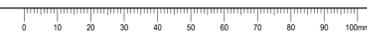
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MARAL SAFARZADEH

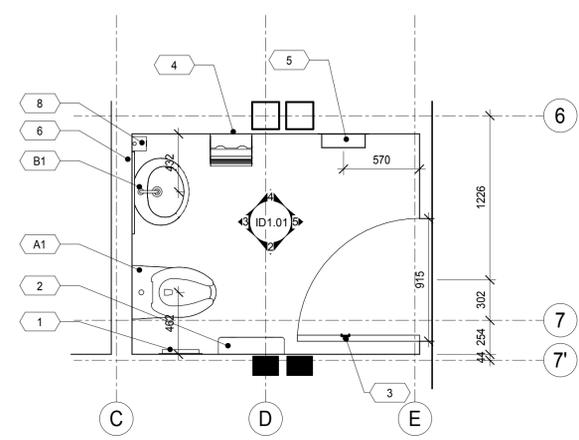
Project Manager / Administrateur de Projets
ANDREW OOSTING

Architectural and Engineering Resources Manager /
Ressources Architecturales et de l'ingénierie

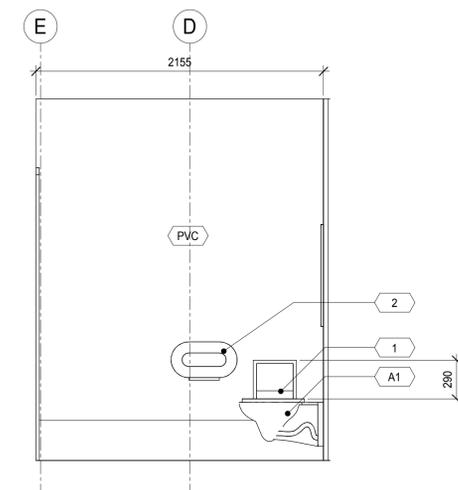
Client / client
Parks Canada

Drawing title / Titre du dessin
MAIN FLOOR FINISHES PLAN

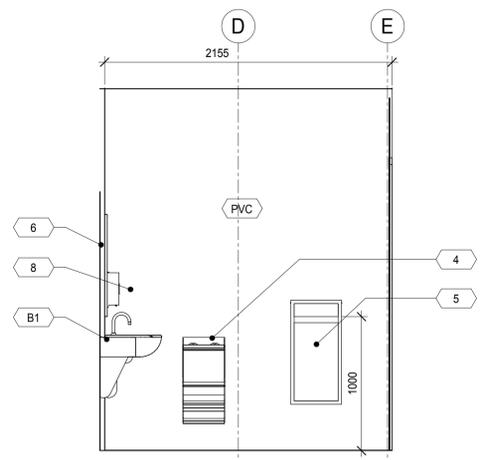




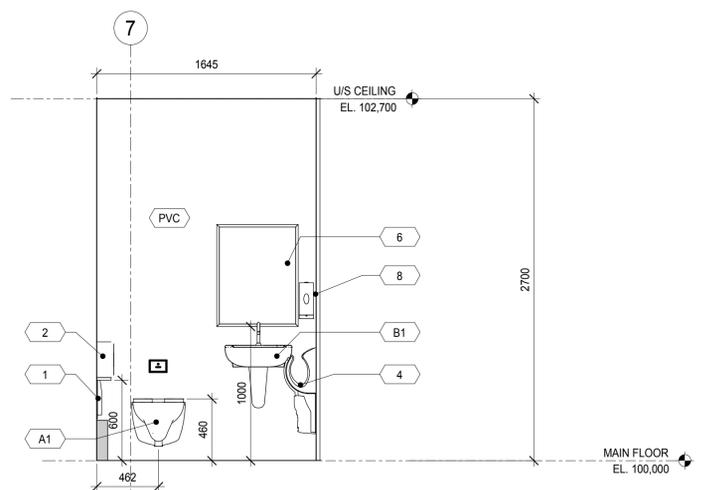
1 ENLARGED PLAN SOUTH WING - Callout 1
ID1.01 SCALE: 1 : 25



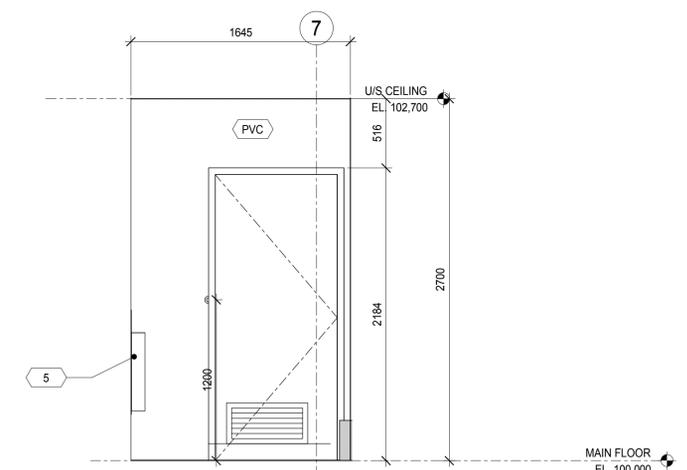
2 TYPICAL WASHROOM - SIDE
ID1.01 SCALE: 1 : 25



4 TYPICAL WASHROOM - SIDE VIEW
ID1.01 SCALE: 1 : 25



3 TYPICAL WASHROOM
ID1.01 SCALE: 1 : 25



5 TYPICAL WASHROOM - DOOR SIDE
ID1.01 SCALE: 1 : 25

WASHROOM ACCESSORIES NOTES:

1. WASHROOM LAYOUT, FIXTURES, ACCESSORIES, MOUNTING HEIGHTS, ETC. SHALL BE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE AND MEET CSA B651 BARRIER FREE STANDARD
2. ALL DIMENSIONS TO BE CONFIRMED ON SITE
3. SUPPLY AND INSTALL WASHROOM EQUIPMENT TO MANUFACTURER'S INSTALLATION INSTRUCTIONS
4. FOR ANY N.I.C. PRODUCTS SUPPLIED BY OTHERS AND TO BE INSTALLED BY CONTRACTOR THE CONTRACTOR IS REQUIRED TO ADVISE DESIGNER MIN. 6 WEEKS PRIOR TO INSTALL DATE WHEN UNITS WILL BE REQUIRED ON SITE.
5. ALL OTHER WALL MOUNTED FIXTURES TO BE FULLY SUPPORTED WITH 19 mm WATER RESISTANT PLYWOOD AND ENSURE ADEQUATE BLOCKING IS PROVIDED
6. REFER TO FINISHES MATERIALS SCHEDULE FOR FINISHES
7. BUMPERS TO BE INSTALLED ON INTERIOR HINGE SIDE OF DOOR AND ALIGNED TO BUMP THE ADJACENT PARTITION WITHOUT CAUSING DAMAGE
8. ALL GRAB BARS TO BE FULLY SUPPORTED WITH 19 mm WATER RESISTANT PLYWOOD
9. INTERIOR SIGNAGE TO INCLUDE INTERNATIONAL PICTOGRAMS FOR EACH HANDICAP ACCESSIBLE WOMEN'S AND MEN'S WASHROOM @ MIN. 150 mm HIGH. DESIGN TO FOLLOW APPROVED PARKS CANADA'S BRANDING STANDARD. ALL INTERNAL SIGNAGE PROVIDED BY OTHERS TO BE APPROVED BY PARKS CANADA'S BRANDING DEPARTMENT
10. ALL EXPOSED EDGES AND OUTSIDE CORNERS TO BE FINISHED WITH STAINLESS STEEL SCHLUTER TRIM
11. FAUCETS SHALL BE SENSORED AND BE SELF-POWERED TO ELIMINATE INDIVIDUAL POWER FOR EACH FAUCET
12. BARRIER FREE DOORS SHALL BE PROVIDED WITH SPRING-TYPE OR GRAVITY HINGES SO THAT THE DOOR CLOSSES AUTOMATICALLY, AND BE OPERABLE FROM THE OUTSIDE UNDER EMERGENCY CONDITIONS.
13. BARRIER FREE WASHROOM TO BE EQUIPPED WITH A BACK SUPPORT
14. CONTRACTOR TO ENSURE HARDWARE MEET CSA REQUIREMENTS

ACCESSORIES LEGEND		PLUMBING FIXTURES	
1	SANITARY DISPOSAL UNIT - STAINLESS STEEL W/ SATIN FINISH	A1	BARRIER FREE WALL HUNG TOILET
2	TOILET PAPER DISPENSER - STAINLESS STEEL W/ SATIN FINISH	B1	SINK
3	COAT HOOK - STAINLESS STEEL W/ SATIN FINISH		
4	HAND INSERT DRYER - STAINLESS STEEL W/ SATIN FINISH		
5	WASTE RECEPTACLE - STAINLESS STEEL W/ SATIN FINISH		
6	MIRROR - 24"x30"		
7	FOLDING CHANGE TABLE		
8	AUTOMATIC SOAP DISPENSER - STAINLESS STEEL W/ SATIN FINISH		
9	GRAB BAR - STAINLESS STEEL (SATIN) W/ PEENED FINISH		
10	T' TYPE DOOR PULL - STAINLESS STEEL W/ SATIN FINISH		

Revision / Révision	Description / Description	Date / Date
5	ISSUED FOR TENDER	12-14-18
4	ISSUED FOR 99%	10-28-18
3	ISSUED FOR 90%	08-20-18
2	ISSUED FOR 60%	05-31-18
1	ISSUED FOR 30%	03-28-18

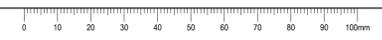


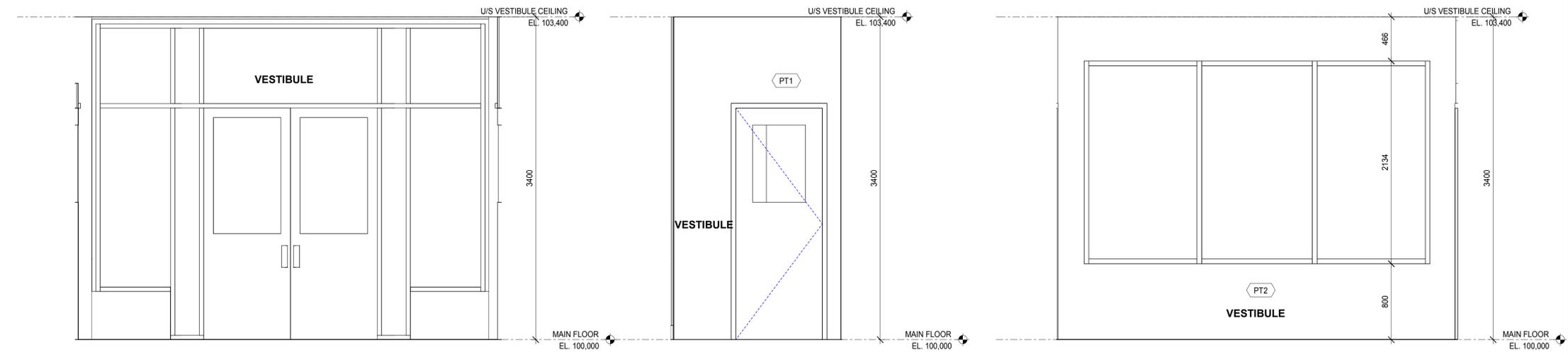
Project title/Titre du projet
ROGERS PASS WASHROOM FACILITY AND DAY USE AREA

Approved by/Approuvé par
AMINA OYAKHLOME
Designed by/Concept par
PETER SCHULZ
Drawn by/Dessiné par
MARAL SAFARZADEH
Project Manager/Administrateur de Projets
ANDREW OOSTING
Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'ingénierie

Client / client
Parks Canada
Drawing title / Titre du dessin
ENLARGED WASHROOM PLAN AND ELEVATIONS

Project No. / No. du projet CAI 752	Sheet / Feuille ID1.01	Revision no. / La Révision no. 5
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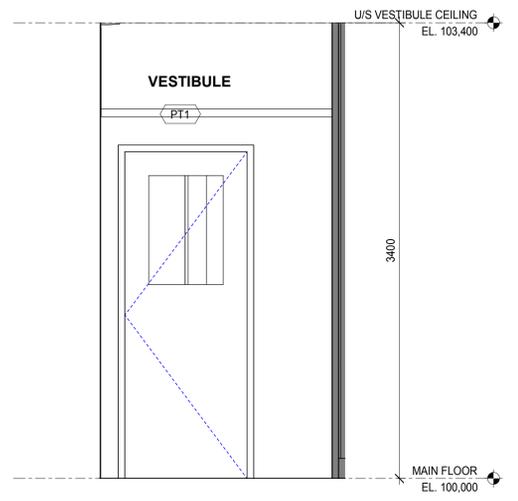




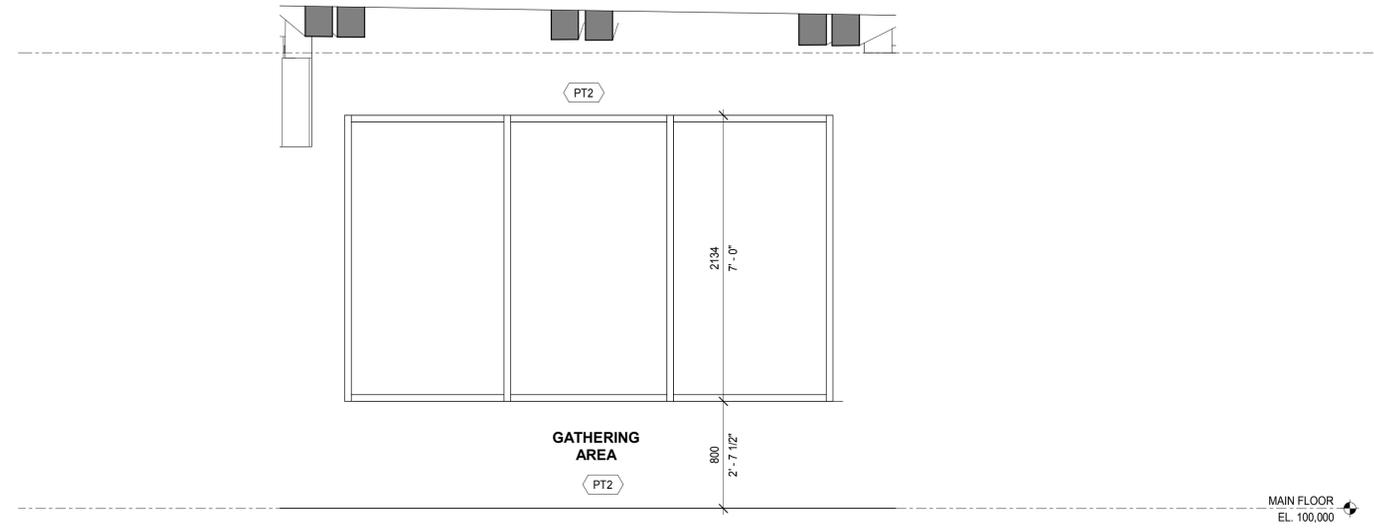
1 VESTIBULE - EAST ELEVATION
ID1.03 SCALE: 1:25

3 VESTIBULE - SOUTH ELEVATION
ID1.03 SCALE: 1:25

4 VESTIBULE - WEST ELEVATION
ID1.03 SCALE: 1:25



2 VESTIBULE - NORTH ELEVATION
ID1.03 SCALE: 1:25



5 GATHERING AREA - EAST ELEVATION
ID1.03 SCALE: 1:25

Revision / Révision	Description / Description	Date / Date
3	ISSUED FOR TENDER	
2	ISSUED FOR 99%	10-26-18
1	ISSUED FOR 90% REVIEW	09-25-18



Project title / Titre du projet

ROGERS PASS WASHROOM FACILITY AND DAY USE AREA

Approved by / Approuvé par
AMINA OYAKHLOME

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PETER SCHULZ

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ANDREW OOSTING

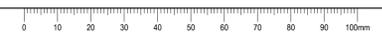
Architectural and Engineering Resources Manager /
Ressources Architecturales et de Directeur d'ingénierie

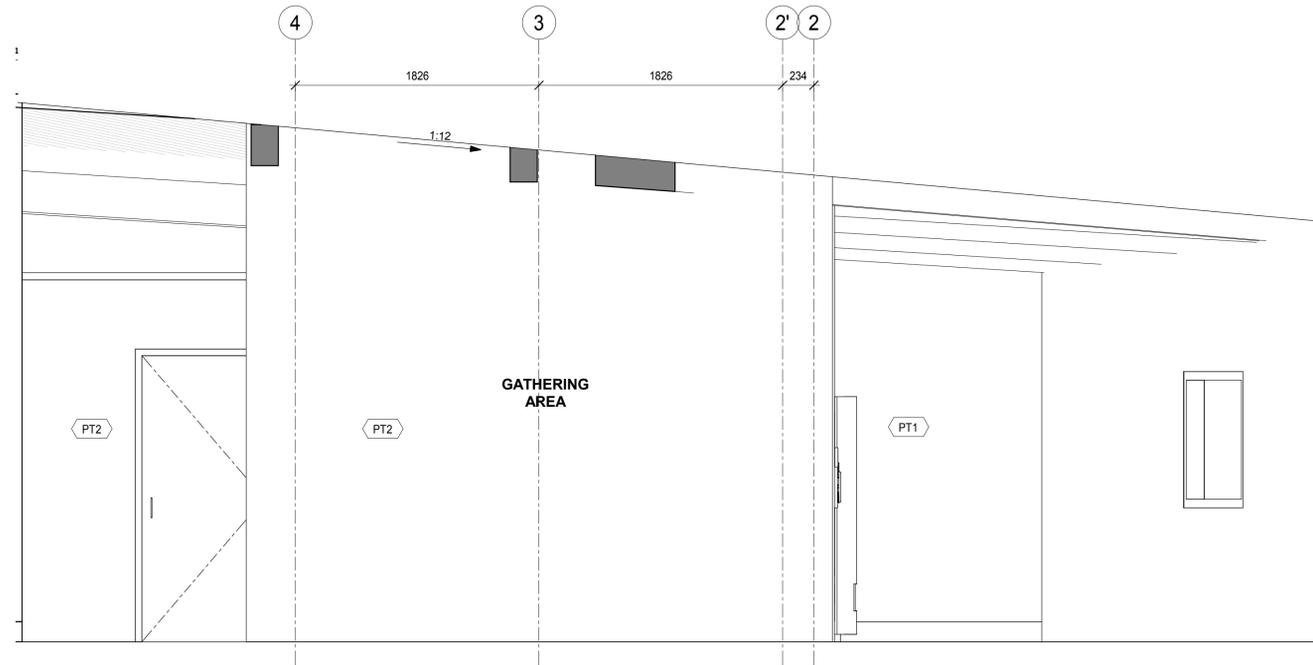
Client / client
Parks Canada

Drawing title / Titre du dessin

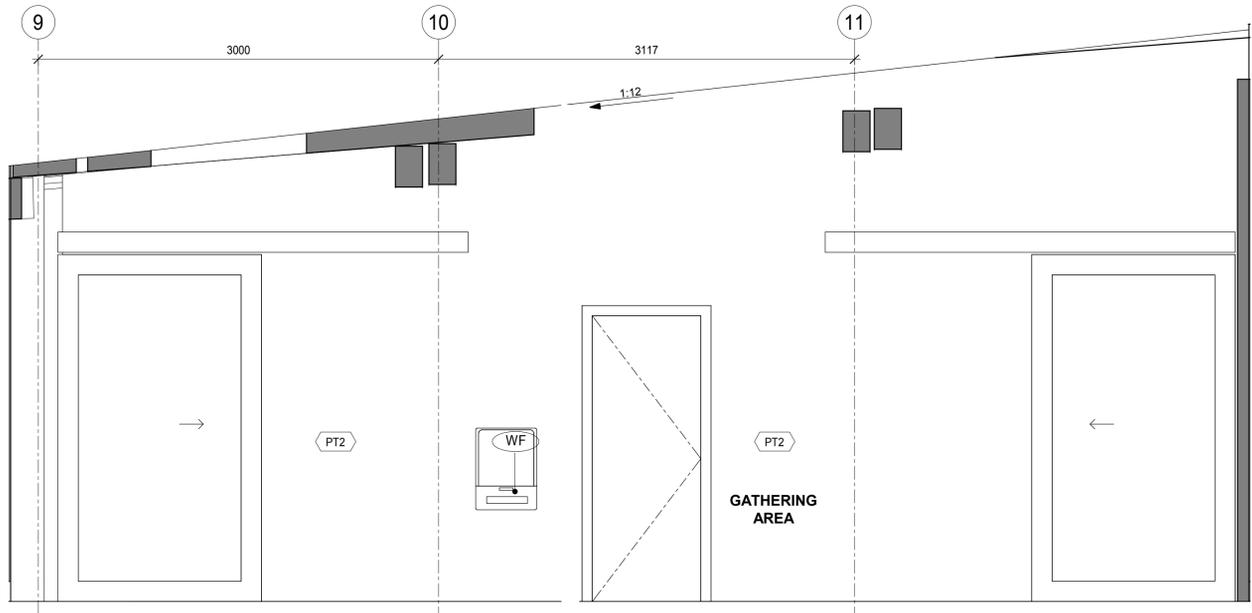
INTERIOR ELEVATIONS

Project No. / No. du projet CAI 752	Sheet / Feuille ID1.03	Revision no. / La Révision no. 3
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3 GATHERING AREA - SOUTH ELEVATION
 ID1.04 SCALE: 1 : 25



1 GATHERING AREA - NORTH ELEVATION
 ID1.04 SCALE: 1 : 25

Revision / Révision	Description / Description	Date / Date
3	ISSUED FOR TENDER	12-14-18
2	ISSUED FOR 99%	10-26-18
1	ISSUED FOR 90% REVIEW	09-25-18

Client / client



Project title / Titre du projet

**ROGERS PASS WASHROOM
 FACILITY AND DAY USE
 AREA**

Approved by/Approuve par
 AMINA OYAKHLOME

Designed by/Concept par
 PETER SCHULZ

Drawn by/Dessiné par
 MARAL SAFARZADEH
 Project Manager/Administrateur de Projets
 ANDREW OOSTING

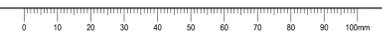
Architectural and Engineering Resources Manager/
 Ressources Architectural et de Directeur d'ingénierie

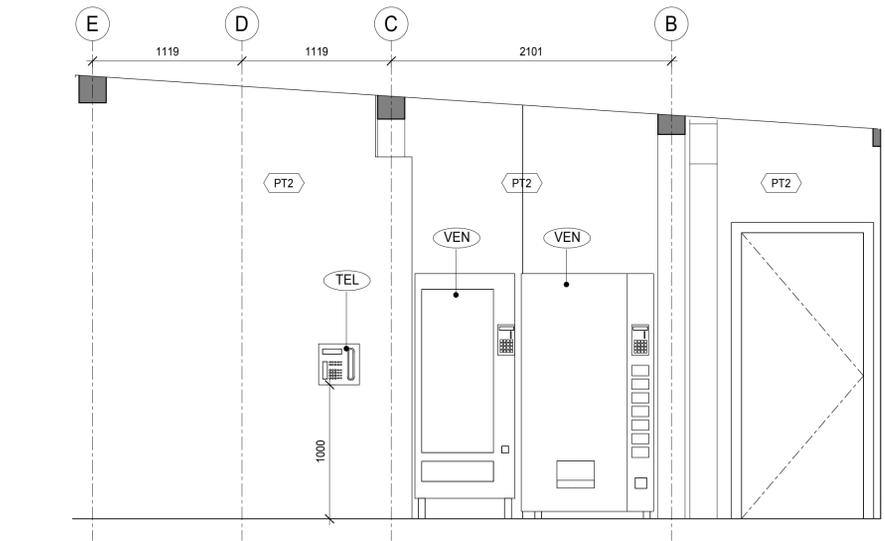
Client / client
Parks Canada

Drawing title / Titre du dessin

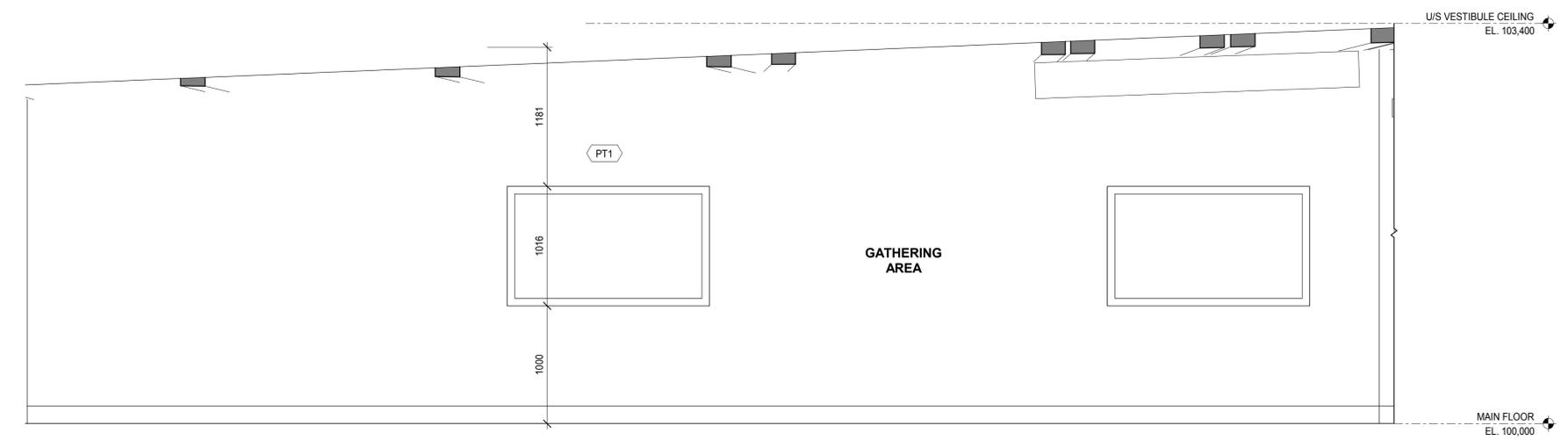
INTERIOR ELEVATIONS

Project No. / No. du projet CAI 752	Sheet / Feuille ID1.04	Revision no. / La Révision no. 3
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2 GATHERING AREA - VENDING MACHINE
ID1.05 SCALE: 1:25



1 GATHERING AREA - WEST WALL
ID1.05 SCALE: 1:25

Revision / Révision	Description / Description	Date / Date
3	ISSUED FOR TENDER	12-14-18
2	ISSUED FOR 99%	10-26-18
1	ISSUED FOR 90% REVIEW	09-25-18

Client / client



Project title / Titre du projet

**ROGERS PASS WASHROOM
FACILITY AND DAY USE
AREA**

Approved by / Approuvé par
AMINA OYAKHLOME

Designed by / Concept par
PETER SCHULZ

Drawn by / Dessiné par
MARAL SAFARZADEH
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ANDREW OOSTING

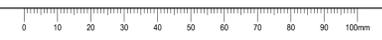
Architectural and Engineering Resources Manager /
Ressources Architectural et de Directeur d'ingénierie

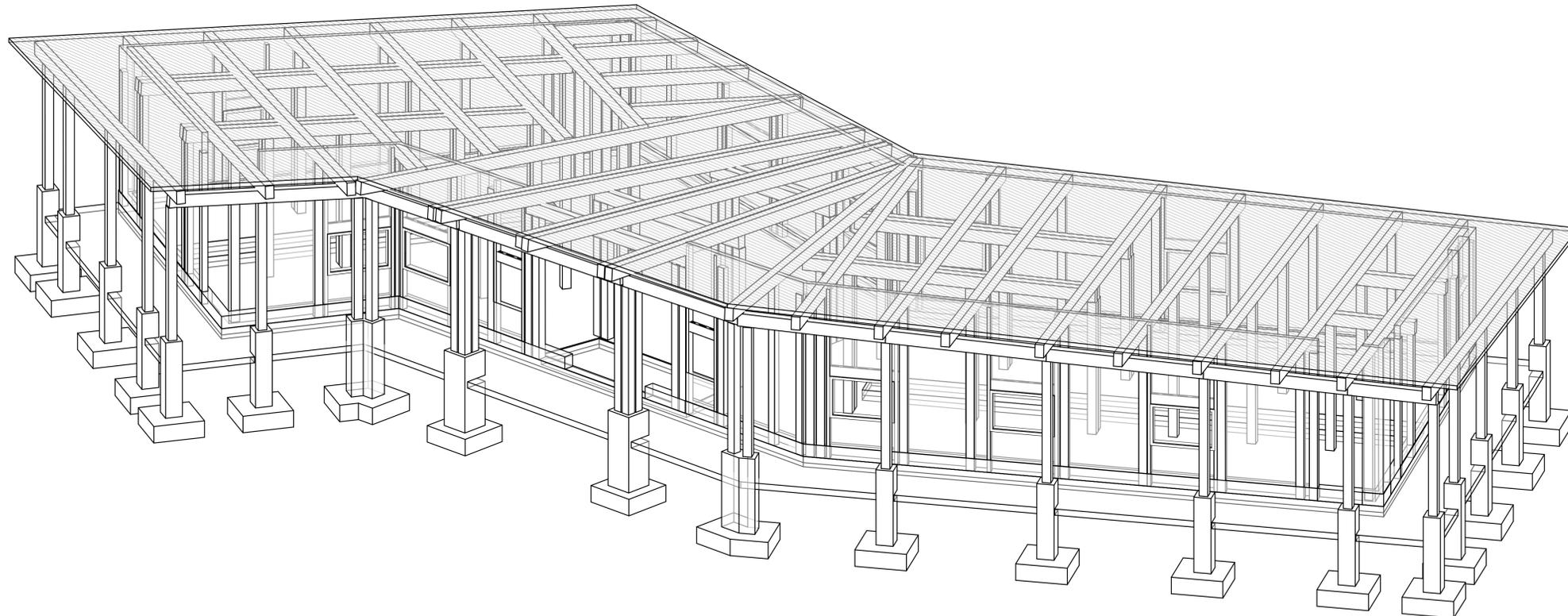
Client / client
Parks Canada

Drawing title / Titre du dessin

INTERIOR ELEVATIONS

Project No. / No. du project CAI 752	Sheet / Feuille ID1.05	Revision no. / La Révision no. 3
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STRUCTURAL FRAMING DESIGN INTENT

THE DESIGN INTENT OF THE STRUCTURAL ROOF FRAMING MEMBERS INDICATED ON THE STRUCTURAL DRAWINGS IS TO SUPPORT A SINGLE-SLOPED ROOF DESIGN. THE SLOPED ROOF DESIGN RESULTS IN VARIABLE HEIGHTS OF THE SUPPORTING COLUMNS AND WALLS THROUGHOUT THE BUILDING. THREE DIMENSIONAL SHOP DRAWINGS ARE TO BE PREPARED AND SUBMITTED WITH SUCH LEVEL OF DETAIL TO PROVE THAT THE STRUCTURAL FRAMING DESIGN INTENT IS ACHIEVED PRIOR TO FABRICATION, DELIVERY AND CONSTRUCTION.



DO NOT SCALE DRAWINGS

06	ISSUED FOR TENDER	2019-01-10
05	ISSUED FOR 99%	2018-10-18
04	ISSUED FOR 90% UPDATE	2018-10-03
03	ISSUED FOR 90% REVIEW	2018-08-20
02	ISSUED FOR 60%	2018-05-04
01	ISSUED FOR 30% REVIEW	2018-03-28

Client / client




 Parks Canada
 Parcs Canada

Project title / Titre du projet

PCA - ROGERS PASS WASHROOM FACILITY

Approved by / Approuvé par
DP

Designed by / Concept par
DP

Drawn by / Dessiné par
ACB

Project Manager / Administrateur de Projets

Architectural and Engineering Resources Manager /
Ressources Architectural et de Directeur d'Ingénierie

Client / client
Parks Canada

Drawing title / Titre du dessin

COVER SHEET

Project No. / No. du projet CAI 752	Sheet / Feuille S-000	Revision no. / La Révision no.
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SCOPE LIMITATION BY RJC PERTAINING TO CONTRACTORS

THE GENERAL CONTRACTOR AND SUB-CONTRACTORS SHALL ENGAGE RJC DIRECTLY FOR THE FOLLOWING SCOPE ITEMS UNDER A SEPARATE CONTRACT BETWEEN THE INVOLVED CONTRACTOR AND RJC. THIS SCOPE OF WORK IS IN ADDITION TO RJC'S CONTRACT WITH THE OWNER. THESE ITEMS ARE RELATED TO MEANS AND METHODS OF CONSTRUCTION AND TO DEFICIENCIES. THE SCOPE OF ITEMS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

- ON-SITE REWORK:
 - RE-DESIGN BY RJC OR REVIEW OF PROPOSED FIXES DESIGNED BY THE STEEL FABRICATOR OF STEEL CONNECTIONS CAUSED BY: OUT OF TOLERANCE OR MISSED ANCHOR BOLTS; OUT OF TOLERANCE OR MISSED EMBED PLATES; MISALIGNED STEEL CONNECTIONS.
 - SOLUTIONS FOR INCORRECTLY PLACED REINFORCING STEEL WHERE RE-DESIGN OR MODIFICATION BY RJC PROVE TO BE LESS WORK THAN TO RE-BUILD THE REINFORCING ACCORDING TO THE CONTRACT DOCUMENTS.
 - INVOLVEMENT RELATED TO FROZEN CONCRETE.
- SHOP DRAWINGS:
 - REVIEW OF SHOP DRAWINGS WHICH REQUIRES MORE THAN ONE ROUND OF "REVISE AND RE-SUBMIT".
 - REVIEW OF RE-SUBMITTED SHOP DRAWINGS ON WHICH REVISIONS HAVE NOT BEEN CLOUDED OR OTHERWISE SUITABLY IDENTIFIED.
- PROCESSING OF ELECTRONIC FILES SUCH AS CAD AND BUILDING INFORMATION MODELS FOR THEIR USE AS SHOP DRAWINGS, MODELING AND INTERFERENCE CHECKS.
- RE-DESIGN TO SUIT EQUIPMENT:
 - REDESIGN OF STRUCTURAL FRAMING AND STRUCTURAL DETAILS FOR THE BASE BUILDING STRUCTURE SHOWN ON THE CONTRACT DRAWINGS FOR MECHANICAL EQUIPMENT SUCH AS COOLING TOWERS, AIR HANDLING UNITS AND OTHER ROOF TOP UNITS IF THE SIZE OR WEIGHT OR ATTACHMENT REQUIREMENTS OF THE UNIT PROPOSED BY THE CONTRACTOR IS DIFFERENT THAN THE UNIT USED FOR THE CONTRACT DOCUMENTS CAUSING RE-FRAMING OTHER THAN RE-DIMENSIONING.
- REVIEW OF STRUCTURAL CAPACITY OF BASE BUILDING ELEMENTS DUE TO CONTRACTOR MEANS AND METHODS OF CONSTRUCTION:
 - MOVING OF MECHANICAL EQUIPMENT, OR OTHER OPERATIONAL AND FUNCTIONAL COMPONENTS OF THE BASE BUILDING ACROSS FLOORS AND ROOF TO THEIR FINAL LOCATIONS.
 - OTHER CONSTRUCTION OR PERMANENT LOADS THAT EXCEED THE LOADING SPECIFIED ON THE CONTRACT DRAWINGS.
- CRANES AND MAN-HOISTS:
 - DESIGN OF CRANE TIE-IN CONNECTIONS TO THE BASE BUILDING STRUCTURE, CRANE FOOTINGS, SEPARATE OR INTEGRAL WITH THE BASE BUILDING FOOTINGS AND STRUCTURAL REVIEW OR MODIFICATIONS OF THE BASE BUILDING STRUCTURE DUE TO THESE.
 - REVIEW AND MODIFICATION OF THE BASE BUILDING STRUCTURE DUE TO LOADS FROM MAN-HOIST TIE-INS
- SEQUENCING:
 - REVIEW OF EFFECTS OF CONSTRUCTION SEQUENCE PROPOSED BY CONTRACTOR ON STABILITY OF THE BASE BUILDING STRUCTURE.
- SPECIFICATIONS, GENERAL NOTES, MOCK-UP REVIEW AND SITE REVIEW SPECIFIC TO SUBSTITUTING CAST-IN-PLACE CONCRETE BY SHOTCRETE.
- DESIGN AND FIELD REVIEW OF SEISMIC RESTRAINT FOR SECONDARY STRUCTURAL ELEMENTS AND OPERATIONAL AND FUNCTIONAL COMPONENTS INCLUDING MECHANICAL AND ELECTRICAL EQUIPMENT.
- CONTRACTOR REQUESTED SUBSTITUTION OF PRODUCTS OR MATERIALS REQUIRING STRUCTURAL REVIEW OR RE-DESIGN, INCLUDING POST-INSTALLED ANCHORS INTO CONCRETE.

STRUCTURAL MOVEMENTS

THIS STRUCTURE WILL UNDERGO NORMAL TYPES OF MOVEMENT AND DEFLECTION, AND THE FOLLOWING ARE ESTIMATES FOR THIS STRUCTURE. NON-STRUCTURAL COMPONENTS MUST BE DETAILED TO ACCOMMODATE THIS DESIGN, DETAILING, AND FIELD REVIEW OF THESE NON-STRUCTURAL ELEMENTS IS BY OTHERS, AND NOT READ JONES CHRISTOFFERSEN LTD.

- DIFFERENTIAL VERTICAL MOVEMENTS BETWEEN ADJACENT COLUMNS AND BETWEEN ADJACENT COLUMNS AND WALLS = APPROXIMATELY 20 mm.
- VERTICAL DEFLECTION OF COLUMNS AND WALLS DUE TO SHRINKAGE AND CREEP = APPROXIMATELY 3.5 mm PER 3600 mm OF HEIGHT.
- VERTICAL DEFLECTIONS OF EDGE BEAMS AND EDGES OF SLABS = APPROXIMATELY 25 mm.
DIFFERENTIAL DEFLECTIONS OF EDGE BEAMS AND EDGES OF SLABS = ± 16 mm.
- HORIZONTAL DRIFT DURING WIND AND EARTHQUAKE BETWEEN FLOORS:
 - ± 13 mm DRIFT WITHOUT DAMAGE TO NON-STRUCTURAL COMPONENTS.
 - ± 50 mm DRIFT WITHOUT COLLAPSE OF NON-STRUCTURAL COMPONENTS.
- MOVEMENT AT EXPANSION JOINTS:
 - ± 50 mm PERPENDICULAR
 - ± 50 mm PARALLEL
 - ± 25 mm VERTICAL

ALL STRUCTURES ARE ALSO SUBJECT TO CONSTRUCTION TOLERANCES. THIS SHOULD BE ALLOWED FOR IN DETAILING NON-STRUCTURAL COMPONENTS IN ADDITION TO THE ABOVE MOVEMENTS.

FIELD REVIEW BY READ JONES CHRISTOFFERSEN (RJC)

- READ JONES CHRISTOFFERSEN PROVIDES FIELD REVIEW ONLY FOR THE WORK SHOWN ON THESE STRUCTURAL DRAWINGS. THIS REVIEW IS NOT A "FULL TIME" REVIEW BUT IS CONDUCTED WITH SUCH FREQUENCY AS RJC DEEMS APPROPRIATE TO OBSERVE VARIOUS STAGES OF THE WORK AND TO ASCERTAIN THAT THE WORK IS IN GENERAL CONFORMANCE WITH THE PLANS AND SUPPORTING DOCUMENTS PREPARED BY READ JONES CHRISTOFFERSEN. FIELD REVIEW BY READ JONES CHRISTOFFERSEN IS NOT CARRIED OUT FOR THE CONTRACTOR'S BENEFIT, NOR DOES IT MAKE READ JONES CHRISTOFFERSEN GUARANTORS OF THE CONTRACTOR'S WORK. IT REMAINS THE CONTRACTOR'S RESPONSIBILITY TO BUILD THE WORK IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. RJC SHALL NOT BE RESPONSIBLE FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUB-CONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

RJC WILL REVIEW SHOP DRAWINGS PERTAINING TO WORK SHOWN ON RJCS DRAWINGS. THE EXTENT OF THIS REVIEW IS AT THE SOLE DISCRETION OF RJCS ENGINEER AND IS FOR THE SOLE PURPOSE OF ASCERTAINING GENERAL CONFORMANCE WITH THE STRUCTURAL DESIGN CONCEPT. THE REVIEW IS NOT AN APPROVAL OF THE DESIGN, DETAILS, AND DIMENSIONS INHERENT IN THE SHOP DRAWINGS. RESPONSIBILITY FOR WHICH SHALL REMAIN WITH THE CONTRACTOR OR SUBCONTRACTOR SUBMITTING THEM. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OR SUBCONTRACTOR OF HIS OR HER RESPONSIBILITY FOR ERRORS AND OMISSIONS IN THE SHOP DRAWINGS OR FOR MEETING ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- PROVIDE 48 HOURS ADVANCE NOTICE OF EACH REQUIRED FIELD REVIEW. FIELD REVIEWS SHALL BE SCHEDULED TO BE CARRIED OUT DURING NORMAL BUSINESS HOURS UNLESS SPECIAL ARRANGEMENTS ARE MADE WITH RJCM.
- THE WORK TO BE REVIEWED SHALL BE GENERALLY COMPLETE.

SHOP DRAWINGS

- AS PART OF FIELD SERVICES, RJC WILL REVIEW SHOP DRAWINGS PERTAINING TO WORK SHOWN ON RJCS DRAWINGS BY MEANS OF APPROPRIATE RATIONAL SAMPLING PROCEDURES AND COMMENT ON THE ACCURACY WITH WHICH THE CONTRACTOR PREPARED THE DRAWINGS.
- REVIEW OF SHOP DRAWINGS IS FOR THE SOLE PURPOSE OF ASCERTAINING CONFORMANCE WITH THE GENERAL DESIGN CONCEPT AND IS NOT AN APPROVAL OF THE DETAILED DESIGN INHERENT IN THE SHOP DRAWINGS. RESPONSIBILITY FOR WHICH SHALL REMAIN WITH THE CONTRACTOR SUBMITTING THEM. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY FOR ERRORS AND OMISSIONS IN THE SHOP DRAWINGS AND FOR MEETING ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INFORMATION PERTAINING TO THE FABRICATION PROCESS, TECHNIQUES FOR CONSTRUCTION AND INSTALLATION, AND FOR CO-ORDINATION OF THE WORK OF ALL SUB-TRADES.
- SHOP DRAWINGS SHALL BE COMPLETE AND INCLUDE ANY REQUIRED SEALS FROM A PROFESSIONAL ENGINEER REGISTERED IN THE JURISDICTION WHERE THE PROJECT IS LOCATED PRIOR TO SUBMISSION.
- ALL SHOP DRAWINGS COMPRISING A REVISED SUBMISSION SHALL INDICATE THE REVISED CONTENT BY MEANS OF CLOUDDING OR OTHER SUITABLE MARKINGS.
- REFER TO "SCOPE LIMITATION BY RJC PERTAINING TO CONTRACTORS" IN THE GENERAL NOTES FOR ADDITIONAL SHOP DRAWING CONDITIONS.

NON-STRUCTURAL ELEMENTS

- "NON-STRUCTURAL" OR "SECONDARY STRUCTURAL" ELEMENTS ARE NOT PART OF THE STRUCTURAL DESIGN SHOWN ON THESE DRAWINGS. SUCH ELEMENTS ARE DESIGNED, DETAILED AND REVIEWED IN THE FIELD BY OTHERS. THEY APPEAR ON DRAWINGS OTHER THAN THESE DRAWINGS OF READ JONES CHRISTOFFERSEN LTD., WHERE STRUCTURAL ENGINEERING RESPONSIBILITY IS REQUIRED FOR THESE ELEMENTS. THIS SHALL BE PROVIDED BY SPECIALTY STRUCTURAL ENGINEERS, WHO SHALL ALSO PROVIDE ANY LETTERS REQUIRED BY BUILDING PERMIT AUTHORITIES.
- EXAMPLES OF NON-STRUCTURAL ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO:
 - ARCHITECTURAL COMPONENTS SUCH AS GUARDRAILS, HANDRAILS, FLAG POSTS, CANOPIES, CEILINGS, MILLWORK, ETC.
 - LANDSCAPE ELEMENTS SUCH AS BENCHES, LIGHT POSTS, PLANTERS, ETC.
 - CLADDING, GLAZING, WINDOW MULLIONS, INTERIOR STUD WALLS AND EXTERIOR STUD WALLS.
 - ARCHITECTURAL PRECAST, PRECAST CLADDING.
 - SKYLIGHTS.
 - MECHANICAL AND ELECTRICAL EQUIPMENT, COMPONENTS, AND THEIR ATTACHMENT DETAILS.
 - WINDOW WASHING EQUIPMENT AND ITS ATTACHMENTS.
 - ESCALATORS, ELEVATORS, AND CONVEYING SYSTEMS.
 - GLASS BLOCK AND ITS ATTACHMENTS.
 - BRICK OR BLOCK VENEERS AND THEIR ATTACHMENTS.
 - NON-LOAD BEARING MASONRY.
 - NON-STRUCTURAL CONCRETE TOPPING.
- SHOP DRAWINGS FOR NON-STRUCTURAL ELEMENTS WHICH MAY AFFECT THE PRIMARY STRUCTURAL SYSTEM SHALL BE SUBMITTED TO READ JONES CHRISTOFFERSEN LTD. THESE DRAWINGS WILL BE REVIEWED ONLY FOR THE EFFECT OF THE ELEMENT ON THE PRIMARY STRUCTURAL SYSTEM.

ABBREVIATIONS

A.B. ----- ANCHOR ROD	L.T.S. ----- LENGTH TO SUIT
A.E.S.S. ----- ARCHITECTURALLY EXPOSED	L.V. ----- LENGTH VARIES
AF ----- FACTORED AXIAL FORCE	L.W. ----- LONG WAY
ALT. ----- ALTERNATE	MAX. ----- MAXIMUM
ARCH. ----- ARCHITECTURAL	MECH. ----- MECHANICAL
B.L.L. ----- BOTTOM LOWER LAYER	Mf ----- FACTORED MOMENT
BM. ----- BEAM	MIN. ----- MINIMUM
BOT. ----- BOTTOM	N.F. ----- NEAR FACE
B.U.L. ----- BOTTOM UPPER LAYER	N.I.C. ----- NOT IN CONTRACT
CANTIL. ----- CANTILEVER	N.S. ----- NEAR SIDE
CI ----- FACTORED AXIAL COMPRESSION FORCE	N.T.S. ----- NOT TO SCALE
C.I.P. ----- CAST IN PLACE	O.C. ----- ON CENTRE
C.J. ----- CONTROL JOINT	O.F. ----- OUTSIDE FACE
CL ----- CENTER LINE	OPP. ----- OPPOSITE
CLR ----- CLEAR	Pf ----- FACTORED POINT LOAD
COL. ----- COLUMN	P.P. ----- PARTIAL PENETRATION
CONC. ----- CONCRETE	R.D. ----- ROOF DRAIN
CONT. ----- CONTINUOUS	RTN. ----- RETURN
C.P. ----- COMPLETE PENETRATION	R/W. ----- REINFORCED WITH
CTRS. ----- CENTRES	S.D.L. ----- SUPERIMPOSED DEAD LOAD
C/W. ----- COMPLETE WITH	SIM. ----- SIMILAR
DET. ----- DETAIL	S.L. ----- SNOW LOAD
D.L. ----- DEAD LOAD	SLS ----- SERVICEABILITY LIMIT STATE
D.O. ----- DO OVER - (DITTO)	S.O.G. ----- SLAB ON GRADE
DP. ----- DEEP (E.G. DEPTH OF BEAM)	SPEC. ----- SPECIFICATIONS
DWG. ----- DRAWING	SST ----- STAINLESS STEEL
DWLS. ----- DOWELS	STAG. ----- STAGGER
E.A. ----- EACH	STIR. ----- STIRRUP
E.E. ----- EACH END	STL. ----- SHORT WAY
E.F. ----- EACH FACE	SYM. ----- SYMMETRICAL
EL. ----- ELEVATION	T&B ----- TOP AND BOTTOM
ELEV. ----- ELEVATION	T&C ----- TENSION AND COMPRESSION
ELEC. ----- ELECTRICAL	T&G ----- TONGUE AND GROOVE
EQ. ----- EQUAL	Tf ----- FACTORED AXIAL TENSION
E.S. ----- EACH SIDE	THK. ----- THICK
E.W. ----- EACH WAY	THRU. ----- THROUGH
EXT. ----- EXTERIOR	T.J. ----- TIE JOIST
F.D. ----- FLOOR DRAIN	T.L.L. ----- TOP LOWER LAYER
FAR. ----- FAR FACE	TOP. ----- TOP
F.S. ----- FAR SIDE	T.O.C. ----- TOP OF CONCRETE
FTG. ----- FOOTING	T.O.F. ----- TOP OF FOUNDATION
GA. ----- GAUGE	T.O.S. ----- TOP OF SLAB/STEEL
GALV. ----- GALVANIZED	T.O.W. ----- TOP OF WALL
G.L. ----- GRID LINE	T.U.L. ----- TOP UPPER LAYER
H.1.E. ----- HOOK ONE END	TYP. ----- TYPICAL
H.2.E. ----- HOOK TWO ENDS	ULS ----- ULTIMATE LIMIT STATE
H&V ----- HORIZONTAL AND VERTICAL	U.N.O. ----- UNLESS NOTED OTHERWISE
HORIZ. ----- HORIZONTAL	U/S ----- UNDERSIDE
H.S.C. ----- HORIZONTALLY SLOTTED CONNECTION	VERT. ----- VERTICAL
HT. ----- HEIGHT	Vf ----- FACTORED SHEAR FORCE
I.F. ----- INSIDE FACE	V.S.C. ----- VERTICALLY SLOTTED CONNECTION
INT. ----- INTERIOR	W.P. ----- WORK POINT
JT. ----- JOINT	WT. ----- WEIGHT
LG. ----- LONG	
L.L. ----- LIVE LOAD	

DESIGN LOADS

1. SPECIFIED UNIFORM LOADS - kPa	LIVE LOAD	SUPERIMPOSED DEAD LOAD (S.D.L.)
A. ROOF* - BASED ON A GROUND SNOW LOAD OF ----- PLUS A RAIN LOAD OF ----- AND AN IMPORTANCE FACTOR OF $I_s = 1.0$ ULS, 0.9 SLS	11.9	1.2
B. MAIN FLOOR (INTERIOR)	0.2	2.4
	4.8	

* PLUS ADDITIONAL SNOW CORNICE AT ROOF EDGE: EQUAL TO THE ROOF SNOW IN DEPTH, EXTENDING HORIZONTALLY UP TO HALF THE ROOF SNOW DEPTH BEYOND THE ROOF EDGE, AND HANGING DOWN UP TO 1m.

CONTRACTORS CONSTRUCTION LOADS MUST NOT EXCEED THE ABOVE DESIGN LOADS. DESIGN LOADS MAY ONLY BE APPLIED AFTER CONCRETE REACHES ITS DESIGN STRENGTH.

SUPERIMPOSED DEAD LOADS (S.D.L.) ARE NON-STRUCTURE DEAD LOADS DUE TO ARCHITECTURAL TOPPING, FINISHES, PARTITIONS, ROOFING MATERIALS, PAVERS, SOIL, ETC.

STRUCTURAL DEAD LOADS (D.L.) ARE DUE TO THE WEIGHT OF THE STRUCTURE ITSELF. THEY VARY WITH THE STRUCTURAL SYSTEM AND INCLUDE CONCRETE TOPPING ON STEEL DECK.

- UNLESS NOTED OTHERWISE, SPECIFIED CONCENTRATED LOADS ARE:
 - ROOFS ----- 1.3 kN
- WIND UPLIFT LOADS ON WOOD ROOFS SHALL BE 1 kPa NET FACTORED UNLESS NOTED OTHERWISE.

SEISMIC AND WIND DESIGN:
THE LATERAL SYSTEM FOR THIS PROJECT CONSISTS OF SHEAR WALLS AND IS DESIGNED FOR THE FOLLOWING EARTHQUAKE FACTORS:

Sa (0.2) = 0.226	SITE CLASSIFICATION: SITE CLASS D
Sa (0.5) = 0.153	le = 1.0
Sa (1.0) = 0.085	Rd = 3.0
Sa (2.0) = 0.044	Ro = 1.7
Sa (5.0) = 0.018	

AND THE FOLLOWING WIND LOADS AND FACTORS:

q50 = 0.32 kPa, Iw = 1.0 ULS, 0.75 SLS.

LIST OF STRUCTURAL DRAWINGS

S-000	COVER SHEET
S-100	GENERAL NOTES AND TYPICAL DETAILS
S-101	GENERAL NOTES AND TYPICAL DETAILS
S-102	GENERAL NOTES AND TYPICAL DETAILS
S-103	GENERAL NOTES AND TYPICAL DETAILS
S-104	GENERAL NOTES AND TYPICAL DETAILS
S-201	MAIN FLOOR FRAMING PLANS
S-202	ROOF FRAMING PLANS
S-301	SECTIONS AND DETAILS

DRAWINGS

- THIS SET OF DRAWINGS SHOWS THE COMPLETED PROJECT. THE DRAWINGS DO NOT SHOW COMPONENTS THAT MAY BE NECESSARY FOR CONSTRUCTION SAFETY. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR SAFETY IN AND ABOUT THE JOB SITE DURING CONSTRUCTION, AND THE DESIGN AND ERECTION OF ALL TEMPORARY STRUCTURES, FORMWORK, FALSE WORK, SHORING, ETC. REQUIRED TO COMPLETE THE WORK.
- THE USE OF THESE DRAWINGS IS LIMITED TO THAT IDENTIFIED IN THE REVISIONS COLUMN. DO NOT CONSTRUCT FROM THESE DRAWINGS UNLESS MARKED "ISSUED FOR CONSTRUCTION" IN THE REVISIONS COLUMN. BY READ JONES CHRISTOFFERSEN LTD. THE DRAWINGS SHALL NOT BE USED FOR PRICING, COSTING, OR TENDER UNLESS SO INDICATED IN THE REVISION COLUMN. PRICING OR COSTING DRAWINGS ARE NOT COMPLETE AND ANY PRICES BASED ON PRICING OR COSTING DRAWINGS MUST INCLUDE ALLOWANCES FOR THIS.
- THE INFORMATION ON THESE DRAWINGS SHALL NOT BE USED FOR ANY OTHER PROJECT OR WORKS. THE INFORMATION ON THESE DRAWINGS APPLIES SOLELY TO THIS PROJECT.

GENERAL

- SECTION MARK SHOWN THUS  MEANS SECTION #4 ON DRAWING S-3.
- SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR SLEEVES, NAILERS, INSERTS, ETC., TO BE ENCASED IN CONCRETE.
- SEE ARCHITECTURAL DRAWINGS FOR FLOOR AND ROOF ELEVATIONS, RECESSES, DRAINAGE SLOPES, ETC.
- THE GENERAL CONTRACTOR SHALL REVIEW ALL THE DRAWINGS AND CHECK DIMENSIONS BEFORE CONSTRUCTION. REPORT DISCREPANCIES BETWEEN STRUCTURAL AND OTHER DISCIPLINES DRAWINGS FOR CLARIFICATION.
- CONCRETE WORK SHALL CONFORM TO CSA A23.1, CSA A23.2, CSA A23.3 AND REFERENCED DOCUMENTS.
- STRUCTURAL STEEL WORK SHALL CONFORM TO CSA S16 AND REFERENCED DOCUMENTS.
- FIRE RESISTANCE RATINGS SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PRECISE LOCATION OF REQUIRED FIRE RESISTANCE RATINGS.
- DO NOT CUT OR DRILL ANY OPENINGS IN STRUCTURAL MEMBERS WITHOUT WRITTEN PERMISSION OF RJC.
- REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND LANDSCAPE DRAWINGS FOR LOCATIONS, CONFIGURATIONS, EXTENT, AND SIZES OF ALL CURBS, UPSTANDS, DOWNTURNS, AND FOR OPENINGS THROUGH FLOORS AND WALLS FOR DUCTS, CONDUIT AND PIPING. PROVIDE FOR SAME.
- DEFINITIONS:
 - RJC: READ JONES CHRISTOFFERSEN OR ITS REPRESENTATIVE.
 - SPECIALTY STRUCTURAL ENGINEER: A STRUCTURAL ENGINEER REGISTERED AND LICENSED TO PRACTICE BY THE PROFESSIONAL ENGINEERING ASSOCIATION HAVING JURISDICTION IN THE AREA WHERE THE STRUCTURE IS TO BE BUILT AND WHO IS RESPONSIBLE FOR THE DESIGN AND FIELD REVIEW OF:
 - STRUCTURAL ELEMENTS DESIGNED BY THE CONTRACTOR OR SUBCONTRACTORS, SUCH AS OPEN WEB STEEL JOISTS, PRECAST DOUBLE TEES, PRECAST PLANKS, STRUCTURAL STEEL CONNECTIONS, LIGHT WOOD FRAME ROOF TRUSSES, ETC.
 - SECONDARY STRUCTURAL ELEMENTS AND NON-STRUCTURAL ELEMENTS. SEE ALSO "NON-STRUCTURAL ELEMENTS" GENERAL NOTES.
 - CONTINUOUS: FULL TENSION SPLICE AND TENSION DEVELOPMENT LENGTH.
 - EMBEDMENT: UNLESS NOTED OTHERWISE COMPRESSION EMBEDMENT MEANS A COMPRESSION DEVELOPMENT LENGTH AND TENSION EMBEDMENT MEANS A TENSION DEVELOPMENT LENGTH AS PER CAN/CSA-A23.3 AND AS SHOWN ON THESE GENERAL NOTES DRAWINGS.
 - GENERAL CONTRACTOR: FOR THE PURPOSES OF THESE DRAWINGS, THE USE OF THE TERM "CONTRACTOR" OR "GENERAL CONTRACTOR" SHALL REFER TO THE PRIME PERSON OR COMPANY RESPONSIBLE FOR CONSTRUCTION OF THE PROJECT AND THE COORDINATION OF TRADES AND SUBCONTRACTORS. THIS MAY BE THE GENERAL CONTRACTOR, OR A CONSTRUCTION MANAGER.

- RJC: READ JONES CHRISTOFFERSEN OR ITS REPRESENTATIVE.
- SPECIALTY STRUCTURAL ENGINEER: A STRUCTURAL ENGINEER REGISTERED AND LICENSED TO PRACTICE BY THE PROFESSIONAL ENGINEERING ASSOCIATION HAVING JURISDICTION IN THE AREA WHERE THE STRUCTURE IS TO BE BUILT AND WHO IS RESPONSIBLE FOR THE DESIGN AND FIELD REVIEW OF:
 - STRUCTURAL ELEMENTS DESIGNED BY THE CONTRACTOR OR SUBCONTRACTORS, SUCH AS OPEN WEB STEEL JOISTS, PRECAST DOUBLE TEES, PRECAST PLANKS, STRUCTURAL STEEL CONNECTIONS, LIGHT WOOD FRAME ROOF TRUSSES, ETC.
 - SECONDARY STRUCTURAL ELEMENTS AND NON-STRUCTURAL ELEMENTS. SEE ALSO "NON-STRUCTURAL ELEMENTS" GENERAL NOTES.
- CONTINUOUS: FULL TENSION SPLICE AND TENSION DEVELOPMENT LENGTH.
- EMBEDMENT: UNLESS NOTED OTHERWISE COMPRESSION EMBEDMENT MEANS A COMPRESSION DEVELOPMENT LENGTH AND TENSION EMBEDMENT MEANS A TENSION DEVELOPMENT LENGTH AS PER CAN/CSA-A23.3 AND AS SHOWN ON THESE GENERAL NOTES DRAWINGS.
- GENERAL CONTRACTOR: FOR THE PURPOSES OF THESE DRAWINGS, THE USE OF THE TERM "CONTRACTOR" OR "GENERAL CONTRACTOR" SHALL REFER TO THE PRIME PERSON OR COMPANY RESPONSIBLE FOR CONSTRUCTION OF THE PROJECT AND THE COORDINATION OF TRADES AND SUBCONTRACTORS. THIS MAY BE THE GENERAL CONTRACTOR, OR A CONSTRUCTION MANAGER.

DESIGN CODE

- THE COMPLETED BASE BUILDING STRUCTURE SHOWN ON THE STRUCTURAL DRAWINGS HAS BEEN DESIGNED IN SUBSTANTIAL ACCORDANCE WITH THE NATIONAL BUILDING CODE OF CANADA 2015.

DO NOT SCALE DRAWINGS

06	ISSUED FOR TENDER	2019-01-10
05	ISSUED FOR 99%	2018-10-18
04	ISSUED FOR 90% UPDATE	2018-10-03
03	ISSUED FOR 90% REVIEW	2018-08-20
02	ISSUED FOR 60%	2018-05-04
01	ISSUED FOR 30% REVIEW	2018-03-28

Client / client



Project titre/Titre du projet

PCA - ROGERS PASS WASHROOM FACILITY

Approved by/Approuve par

DP

Designed by/Concept par

DP

Drawn by/Dessine par

ACB

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'Ingénierie

Client / client

Parks Canada

Drawing title / Titre du dessin

GENERAL NOTES AND TYPICAL DETAILS

Project No. / No. du projet	Sheet / Feuille	Revision no. / La Révision no.
CAI 752	S-100	



CONCRETE REINFORCEMENT

- REINFORCEMENT SHALL CONFORM TO THE FOLLOWING STANDARDS:

A. 10M AND LARGER (U.N.O.)	-	CSA G30.18 GRADE 400R
B. WELDED WIRE REINFORCEMENT	-	CSA G30.5 GRADE 400
C. ALL REINFORCING THAT WILL BE	-	CSA G30.18 GRADE 400W
F. GALVANIZED REBAR	-	ASTM A767

(NOTE: CSA G30.18 W GRADES MAY BE SUBSTITUTED FOR CSA G30.18 R GRADES)

- UNLESS OTHERWISE NOTED CONCRETE COVER TO REINFORCEMENT SHALL BE:

A. CONCRETE CAST AGAINST EARTH OR GROUND	-----	75 mm
B. CONCRETE WITH NO MEMBRANE	-----	60 mm OR 2d (WHICHEVER IS GREATER)
C. FORMED FINISHED CONCRETE EXPOSED TO WEATHER, EXPOSURE CLASS F1, F2, S1, S2 OR EARTH	-----	40 mm OR 1.5d (WHICHEVER IS GREATER)

NOTES:

LARGEST COVER REQUIRED GOVERNS.

SEE STRUCTURAL DRAWINGS FOR AREAS CLASSIFIED AS (C) or (D) ABOVE FOR WEATHER EXPOSURE.

- DESIGNATION OF REINFORCING BARS:

A. BARS SHOWN THUS _____ IN BOTTOM OF BEAMS OR SLABS OR IN FAR FACE OF WALL

BARS SHOWN THUS _____ IN TOP OF BEAMS OR SLABS OR IN NEAR FACE OF WALL

B. STRAIGHT BARS: E.G. 6-10M4200 MEANS 6-10M BARS 4200 mm LONG. E.G. 15M3800 + 15M3200 ALT. @ 300 MEANS 1-15M3800 BAR THEN 1-15M3200 BAR SPACED 300 mm AWAY

BENT BARS: E.G. 13-A20M4000 MEANS 13-20M BARS 4000 mm LG. H.1.E. 180°. E.G. 3-C25M3000 MEANS 3-25M BARS 3000 mm LONG H.1.E. 90°. (NOTE: BENT BAR LENGTHS INCLUDE HOOK DIMENSION)

- DO NOT SUBSTITUTE DEFORMED WIRE FOR REINFORCING BARS WITHOUT PRIOR APPROVAL OF THE RJC.
- SUPPORT REINFORCING WITH CHAIRS, ACCESSORIES, OR REINFORCING BARS AS REQUIRED. BARS USED AS SUPPORT BARS SHALL BE CONSIDERED AS ACCESSORIES.
- PROVIDE SUFFICIENT SUPPORTS TO MAINTAIN CONCRETE COVER AS SPECIFIED. ALL SUPPORTS AND BARS MUST BE TIED TOGETHER TO MAINTAIN REINFORCING STEEL SECURELY IN PLACE DURING CONCRETE PLACEMENT.

CONCRETE COLD WEATHER REQUIREMENTS

(SEE ALSO CSA A23.1, EXCEPT THE FOLLOWING MINIMUM REQUIREMENTS MUST ALSO BE MET)

- FORECASTED AIR TEMPERATURE AT OR BELOW 5°C**

- THE AGGREGATE OR MIXING WATER SHALL BE HEATED TO MAINTAIN A MINIMUM CONCRETE TEMPERATURE OF 10°C.
- CONCRETE SHALL NOT BE PLACED ON OR AGAINST ANY SURFACE WHICH IS AT A TEMPERATURE LESS THAN 5°C.
- CONTRACTOR SHALL BE PREPARED TO COVER SLAB IF UNEXPECTED DROP IN AIR TEMPERATURE SHOULD OCCUR.
- CONCRETE TEMPERATURE SHALL BE MAINTAINED ABOVE 10°C FOR AT LEAST 7 DAYS OR UNTIL THE CONCRETE REACHES 70% OF SPECIFIED STRENGTH.

- FORECASTED AIR TEMPERATURE BELOW 2°C BUT NOT BELOW -4°C**

(NOTE - FOR THESE CONDITIONS STRUCTURAL CONCRETE TOPPINGS ON METAL DECK SHALL SATISFY THE REQUIREMENTS OF 3.)

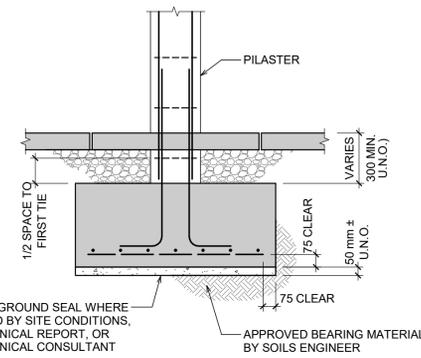
- FORMS AND STEEL SHALL BE FREE FROM ICE AND SNOW.
- THE AGGREGATE OR MIXING WATER SHALL BE HEATED TO GIVE A MINIMUM CONCRETE TEMPERATURE OF 10°C AT POINT OF POUR.
- CONCRETE SHALL NOT BE PLACED ON OR AGAINST ANY SURFACE WHICH IS AT A TEMPERATURE OF LESS THAN 5°C.
- SLABS SHALL BE COVERED WITH CANVAS OR SIMILAR, KEPT A FEW INCHES CLEAR OF SURFACE.
- IN WINDY WEATHER, STOREY BELOW SLAB SHALL BE ENCLOSED.
- PROTECTION SHALL BE MAINTAINED FOR AT LEAST THE SPECIFIED CURING PERIOD.
- CONCRETE TEMPERATURE SHALL BE MAINTAINED ABOVE 10°C FOR AT LEAST THE SPECIFIED CURING PERIOD.

- FORECASTED AIR TEMPERATURE BELOW -4°C**

- A, B, C, D, AS UNDER POINT 2.
- TEMPERATURE OF THE CONCRETE AT ALL SURFACES SHALL BE KEPT AT A MINIMUM OF 20°C FOR 3 DAYS, OR 10°C FOR 7 DAYS. CONCRETE SHALL BE KEPT ABOVE FREEZING TEMPERATURES UNTIL IT REACHES 70% OF ITS SPECIFIED STRENGTH.
- ENCLOSURE MUST BE CONSTRUCTED SO THAT AIR CAN CIRCULATE OUTSIDE THE OUTER EDGES AND MEMBERS.
- REINFORCING TO BE COVERED AND WARMED TO MAINTAIN ITS TEMPERATURE AT 0°C OR HIGHER AT THE TIME OF CONCRETE PLACEMENT.

TYPICAL COLUMN FOOTING

EXCEPT AS NOTED:
 - FOR SPLICE LENGTHS, SEE TABLES ON STRUCTURAL DRAWINGS.
 - FOOTING SHALL BE CENTERED UNDER COLUMN/ PILASTER U.N.O.



CONCRETE

- CONCRETE IS SPECIFIED AS PER THE "PERFORMANCE" ALTERNATE AS OUTLINED IN CSA A23.1. CONCRETE IS TO BE CAST-IN-PLACE. THE USE OF SHOTCRETE FOR ANY ELEMENTS REQUIRES APPROVAL BY THE ENGINEER. ANY COSTS ASSOCIATED WITH CHANGES TO BE MADE TO THE CONTRACT DOCUMENTS TO ACCOMMODATE SHOTCRETE AS WELL AS ANY ADDITIONAL TESTING IS TO BE PAID FOR BY THE CONTRACTOR.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR WORKING WITH THE CONCRETE SUPPLIER TO ENSURE THAT THE PLASTIC AND HARDENED MIX PROPERTIES MEET SITE REQUIREMENTS FOR PLACING, FINISHING, AND THE OWNERS' SPECIFIED PERFORMANCE REQUIREMENTS. THE GENERAL CONTRACTOR SHALL MEET THE DOCUMENTATION AND QUALITY CONTROL REQUIREMENTS OUTLINED UNDER THE "PERFORMANCE" ALTERNATE OF CSA A23.1.
- THE SUPPLIER SHALL MEET ALL CERTIFICATION AND DOCUMENTATION REQUIREMENTS AS OUTLINED UNDER THE "PERFORMANCE" ALTERNATE OF CSA A23.1.
- CONCRETE PROPERTIES:

GENERAL			
ELEMENT	COMPRESSIVE STRENGTH (MPa) 28 DAY U.N.O.	EXPOSURE CLASS	COMMENTS
FOOTINGS & PILASTERS	30 MPa (56 DAY)	N/ F2	-
SLAB ON GRADE (INTERIOR)	25 MPa	N	-
SLAB ON GRADE (EXTERIOR)	32 MPa	C-2	-

NOTE: USE F-2 EXPOSURE FOR EXTERIOR CONCRETE ELEMENTS. USE N EXPOSURE FOR INTERIOR CONCRETE OR ELEMENTS PROTECTED BY A MEMBRANE.

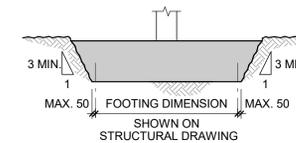
- PORTLAND CEMENT SHALL BE TYPE GU UNLESS NOTED OTHERWISE.
- CEMENT TYPE FOR EXPOSURE CLASSES S-1, S-2, AND S-3 SHALL BE AS OUTLINED IN CSA A23.1.
- CONCRETE SHALL HAVE A UNIT WEIGHT OF 23±1 kN/m³ (145±5 PCF) UNLESS NOTED OTHERWISE.
- THE CONCRETE PROPERTIES USED IN DESIGN ARE BASED ON 19 mm AGGREGATE, UNLESS NOTED OTHERWISE. ALL LOCATIONS FOR CONCRETE MIX DESIGNS WITH AGGREGATE SIZE SMALLER THAN 19 mm PROPOSED BY THE CONTRACTOR SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL. ANY INCREASE IN REQUIRED CONCRETE STRENGTH OR INCREASE IN QUANTITY OF REINFORCEMENT DUE TO PROPOSED USE OF CONCRETE MIX WITH AGGREGATE SIZE SMALLER THAN 19 mm TO BE PAID FOR BY THE CONTRACTOR.
- RECYCLED AGGREGATE IS NOT TO BE USED WITHOUT WRITTEN APPROVAL BY THE ENGINEER.
- SLUMP AND AGGREGATE SIZE TO BE DETERMINED BY THE GENERAL CONTRACTOR AND SUPPLIER TO MEET PLACEMENT, AND FINISHING REQUIREMENTS WITHOUT SEGREGATION WHILE MEETING ALL OWNER SPECIFICATIONS.
- MAXIMUM WATER/CEMENT RATIO AND AIR CONTENT TO MEET THE REQUIREMENTS FOR THE EXPOSURE CLASS AS OUTLINED IN CSA A23.1.
- CHLORIDE ION PENETRABILITY FOR EXPOSURE CLASS C-1 AND C-XL SHALL MEET THE REQUIREMENTS OF CSA A23.1.
- AT THE REQUEST OF THE OWNER, THE SUPPLIER WILL FURNISH TEST DATA RESULTS (LESS THAN 3 MONTHS OLD) FOR EACH PROPOSED MIX DESIGN DEMONSTRATING THAT THEY MEET THE STRENGTH, DURABILITY, AND SHRINKAGE REQUIREMENTS SPECIFIED.
- EDGES OF PILASTERS TO BE CHAMFERED 20 mm X 20 mm. ALL TOP EDGES OF EXPOSED SLABS, UPSTANDS AND CURBS TO BE TOOLED UNLESS NOTED OTHERWISE. SEE ALSO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR OTHER FINISH REQUIREMENTS.
- NO CALCIUM CHLORIDE IS PERMITTED, IN ANY FORM, IN ANY CONCRETE MIX WITHOUT THE EXPRESS WRITTEN CONSENT OF READ JONES CHRISTOFFERSEN LTD.
- CURING AND PROTECTION OF CONCRETE FOR HOT, COLD OR DRY WEATHER IS TO BE AS PER CSA A23.1 AS A MINIMUM. SEE ALSO "CONCRETE COLD WEATHER REQUIREMENTS" IN THE STRUCTURAL DRAWINGS.

EXCAVATIONS

- DESIGN AND FIELD REVIEW OF EXCAVATION, SHORING, AND BACKFILL IS NOT DONE BY READ JONES CHRISTOFFERSEN.

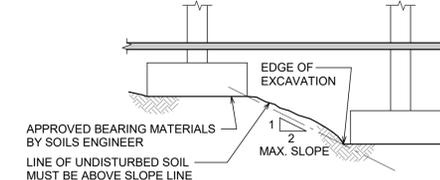
FOUNDATIONS

- FOOTINGS HAVE BEEN DESIGNED FOR THE FOLLOWING FACTORED BEARING RESISTANCE
 - PAD FOOTINGS & SLAB ON GRADE: 225 kPa (ULS) AND 150 kPa (SLS)
- BEARING SURFACES MUST BE APPROVED BY THE SOILS ENGINEER IMMEDIATELY BEFORE FOUNDATION CONCRETE IS PLACED. RJC IS NOT RESPONSIBLE FOR CONFIRMING BEARING CAPACITIES OF SOILS.
- UNLESS OTHERWISE SHOWN, CENTER FOOTINGS UNDER COLUMNS AND WALLS.
- DOWELS SHALL BE PLACED BEFORE CONCRETE IS PLACED. TEMPLATES SHALL BE USED TO ENSURE CORRECT PLACEMENT OF DOWELS.
- PROVIDE 50 mm GROUND SEAL UNDER FOOTINGS AS REQUIRED BY SOIL CONDITIONS.
- FOR GROUND ELEVATIONS AND DRAINAGE SLOPES, SEE ARCHITECT'S DRAWINGS.
- FOOTINGS MAY HAVE TO BE LOWERED TO ACCOMMODATE MECHANICAL OR ELECTRICAL SERVICES. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ELEVATIONS OF SAME. FOOTINGS ARE NOT TO BE UNDERMINED BY EXCAVATIONS FOR SERVICES, PITS, ETC.
- FOOTING ELEVATIONS, IF SHOWN, ARE FOR BIDDING PURPOSES ONLY. ARE NOT FINAL AND MAY VARY ACCORDING TO SITE CONDITIONS OR AS REQUIRED BY SERVICES. ALL FOOTINGS MUST BE TAKEN TO A BEARING LAYER APPROVED BY THE SOILS ENGINEER.
- BEARING SURFACES MUST BE PROTECTED FROM FREEZING BEFORE AND AFTER FOOTINGS ARE POURED.
- SUB-BASE DESIGN OF SOIL UNDER THE SLAB ON GRADE SHALL BE IN ACCORDANCE WITH THE SOIL REPORT.
- CONCRETE PLACED UNDER WATER SHALL CONFORM TO CAN/CSA-A23.1.
- FOOTINGS CAST DIRECTLY INTO EXCAVATIONS (WITHOUT SIDE FORMS) SHALL NOT BE LARGER THAN SHOWN BELOW.



TYPICAL FOOTING ADJACENT TO EXCAVATION

EDGE OF ADJACENT EXCAVATION FOR FOOTINGS, SUMPS, BASEMENT, SITE SERVICES, ETC.



CONCRETE CONSTRUCTION TOLERANCES

(TOLERANCES AS PER CSA A23.1, EXCEPT AS NOTED BELOW)

CLOSER TOLERANCES SHALL BE MAINTAINED WHERE ARCHITECTURAL DETAILS OR OTHERS REQUIRE.

WHERE ANY DEVIATION OCCURS, AND IT IS ACCEPTABLE TO THE ENGINEER AND ARCHITECT, THE CONTRACTOR IS RESPONSIBLE FOR ADJUSTMENT OF OTHER BUILDING ELEMENTS TO ACCOMMODATE SUCH DEVIATION. COSTS FOR REMEDIAL WORK FOR DEVIATIONS NOT ACCEPTED SHALL BE BORNE BY THE CONTRACTOR.

- VARIATION FROM THE PLUMB.

A. IN THE LINES AND SURFACES OF COLUMNS, WALLS AND IN ARRISSES: 0.25% OF HEIGHT (1 IN 400), MAXIMUM 40 mm OVER THE ENTIRE HEIGHT OF THE STRUCTURE.

ONLY ONE CURVATURE ALLOWED PER 3000 mm.

THE TOLERANCE GIVEN IS THE MAXIMUM VARIATION FROM A PLUMB LINE.

ALL MEASUREMENTS SHALL BE TO THE SAME SIDE OF THE PLUMB LINE.

B. UNLESS SPECIFIED ELSEWHERE IN THE CONSTRUCTION DOCUMENTS - THE TOLERANCES FOR EXPOSED CORNER COLUMNS, CONTROL JOINT GROOVES, AND OTHER CONSPICUOUS LINES SHALL BE:

0.125% OF HEIGHT (1 IN 800), MAXIMUM 20 mm.

ONLY ONE CURVATURE ALLOWED PER 6000 mm.

MAXIMUM VARIATION IN WINDOW BAYS 0.2% OF OPENING.

- UNLESS SPECIFIED ELSEWHERE, FLOOR FINISHES SHALL BE CLASS A "INSTITUTIONAL AND COMMERCIAL FLOOR" ± 8 mm PER 3000 mm.

ONLY ONE CURVATURE ALLOWED IN 3000 mm.

CLOSER TOLERANCES MAY BE REQUIRED TO GIVE THE QUALITY OF FINISH FLOOR SURFACES CALLED FOR ELSEWHERE IN THE CONTRACT DOCUMENTS.

- FOOTINGS:

A. VARIATION IN DIMENSIONS IN PLAN:

MINUS ----- 10 mm

PLUS ----- 50 mm

B. MISPLACEMENT OR ECCENTRICITY:

TWO (2) PERCENT OF THE FOOTING WIDTH IN THE DIRECTION OF MISPLACEMENT BUT NOT MORE THAN ----- 50 mm

C. REDUCTION IN THICKNESS:

MINUS ----- 5% OF SPECIFIED THICKNESS

- THE ABOVE REQUIREMENTS DO NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY OF MEETING MORE RIGID REQUIREMENTS SPECIFIED ELSEWHERE IN THE CONSTRUCTION DOCUMENTS OR AS REQUIRED BY EQUIPMENT SHOP DRAWINGS OR SPECIFICATIONS SUCH AS THOSE FOR ELEVATORS, ETC.



DO NOT SCALE DRAWINGS

NO.	DESCRIPTION	DATE
06	ISSUED FOR TENDER	2019-01-10
05	ISSUED FOR 99%	2018-10-18
04	ISSUED FOR 90% UPDATE	2018-10-03
03	ISSUED FOR 90% REVIEW	2018-08-20
02	ISSUED FOR 60%	2018-05-04
01	ISSUED FOR 30% REVIEW	2018-03-28

Client / client



Project title/Titre du projet

PCA - ROGERS PASS WASHROOM FACILITY

Approved by/Approuvé par

DP

Designed by/Concepté par

DP

Drawn by/Dessiné par

ACB

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/
Ressources Architecturales et de Directeur d'Ingénierie

Client / client

Parks Canada

Drawing title / Titre du dessin

GENERAL NOTES AND TYPICAL DETAILS

Project No. / No. du projet

CAI 752

Sheet / Feuille

S-101

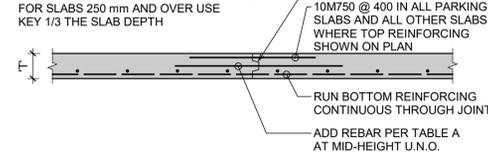
Revision no. /
La Révision
no.



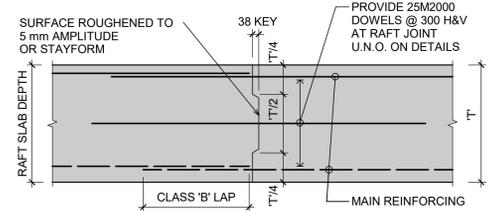
CONSTRUCTION JOINTS THROUGH SLABS, SLAB BANDS, AND BEAMS

LOCATIONS TO BE APPROVED BY RJC

KEY FROM 38x38 FOR SLABS UP TO 140 mm
KEY FROM 38x64 FOR SLABS 150 mm TO 190 mm
KEY FROM 38x89 FOR SLABS 200 mm TO 240 mm
FOR SLABS 250 mm AND OVER USE
KEY 1/3 THE SLAB DEPTH



THROUGH SLABS



THROUGH RAFT SLAB

NON-STRUCTURAL CONCRETE TOPPING ON CONCRETE SLABS

- SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR EXTENT, THICKNESS, AND DETAILS.
- REINFORCE AS SHOWN ON STRUCTURAL OR ARCHITECTURAL PLANS AND SPECIFICATIONS, EXCEPT MINIMUM REINFORCING TO BE.

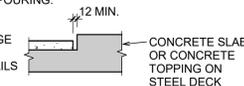
TOPPING THICKNESS	REINFORCING (TO BE PLACED AT MID-DEPTH)
UP TO 50 mm	1 SHEET OF WWR 152 X 152 - MW9.1 X MW9.1 LAP 300
75 mm	1 SHEET OF WWR 152 X 152 - MW13.3 X MW13.3 LAP 300 OR 2 SHEETS OF WWR 152 X 152 - MW9.1 X MW9.1 LAP 300
100 mm	2 SHEETS OF WWR 152 X 152 - MW9.1 X MW9.1 LAP 300 OR 10M @ 500 EACH WAY
125 mm	10M @ 400 EACH WAY

- SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR CONTROL JOINTS AND EXPANSION JOINTS. DETAILS, JOINT SPACING AND PATTERN. UNLESS NOTED OTHERWISE, PROVIDE 25 mm DEEP SAWCUTS OR TOOLED JOINTS. MAXIMUM SPACING OF JOINTS IN EACH DIRECTION IS 3000 mm. IF SAWCUTS ARE USED, DO NOT CUT REINFORCING AND MAKE THE SAWCUTS WITHIN 12 HOURS OF POURING.

- PROVIDE 12 mm GAP (MIN.) AT EDGES TO ALLOW FOR SHRINKAGE AND THERMAL EXPANSION. SEE ALSO ARCHITECTURAL DETAILS AND REQUIREMENTS.

- SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR JOINT FILLERS AND SLIP SHEETS, IF REQUIRED.

- FIELD REVIEW OF ARCHITECTURAL TOPPING DETAILS SUCH AS REINFORCING, JOINTS, JOINT SPACING, JOINT FILLER, SLIP SHEETS ETC., BY OTHERS, NOT BY RJC. CALL ARCHITECT TO SCHEDULE FIELD REVIEW OF THOSE ELEMENTS.

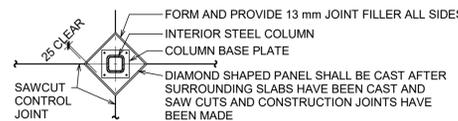


SLAB ON GRADE REINFORCING AND CONTROL JOINTS

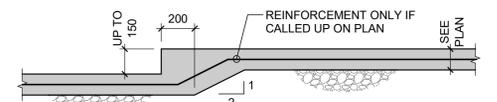
- SLAB ON GRADE SHALL BE PLACED ON SOIL CAPABLE OF SUSTAINING 25 kPa MINIMUM WITHOUT SETTLEMENT RELATIVE TO THE BUILDING FOUNDATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR DESIGNING THE SLAB ON GRADE AND ANY SPECIAL SUBBASE PREPARATIONS REQUIRED TO SUPPORT TEMPORARY SHORING OR ANY OTHER TEMPORARY CONSTRUCTION LOADS.
- REINFORCE SLAB ON GRADE AS PER THE TABLE BELOW. PROPERLY CHAIR REINFORCING SO THAT IT IS LOCATED 40 mm CLEAR FROM TOP OF SLAB.

SLAB ON GRADE THICKNESS	MINIMUM REINFORCING UNLESS NOTED OTHERWISE ON PLAN
LESS THAN 115 mm	WWR 152 X 152 - MW18.7 X MW18.7 (LAP 300 mm)
115 mm TO 175 mm	10M @ 400 EACH WAY
GREATER THAN 175 mm	15M @ 400 EACH WAY

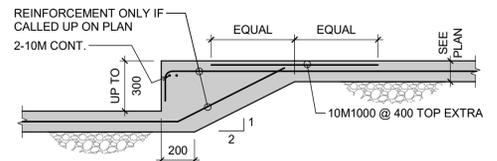
- REINFORCEMENT AS SPECIFIED IN NOTE 4 ABOVE TO CROSS AND LAP MINIMUM TENSION SPLICE LENGTH AT COLD JOINTS. FOR UNREINFORCED SLAB ON GRADE PROVIDE 38 mm X 38 mm DEEP CONTINUOUS SHEAR KEY IN SLAB ON GRADE FACE.
- UNLESS NOTED ELSEWHERE ON THE STRUCTURAL AND / OR ARCHITECTURAL DRAWINGS AND SPECIFICATIONS, SPACE CONTROL JOINTS AT 4500 mm O/C MAXIMUM.
- SAWCUT JOINTS 4 mm WIDE AND 30 mm DEEP AS SOON AS PRACTICAL, BUT NO LATER THAN 12 HOURS AFTER PLACEMENT OF SLAB. USE EQUIPMENT THAT DOES NOT "RAVEL" THE EDGES OF THE CUT. SEAL AS REQUIRED. EXERCISE CAUTION TO AVOID EMBEDDED MECHANICAL AND ELECTRICAL SERVICES.
- UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS, RUN ANY SLAB ON GRADE REINFORCEMENT THROUGH THE JOINTS.
- UNLESS NOTED OTHERWISE, SAWCUT DIAMOND PATTERN AROUND COLUMNS, 150 mm CLEAR OF COLUMNS.



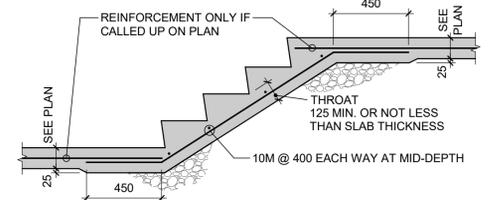
TYPICAL SLAB ON GRADE STEP DETAILS - U.N.O.



150 mm MAXIMUM STEP



300 mm MAXIMUM STEP



STAIRS

EMBEDMENT / DEVELOPMENT LENGTHS AND SPLICE LENGTHS

BASED ON CSA A23.3

WHERE EMBEDMENT OR SPLICES ARE DIMENSIONED ON THE DRAWINGS, SUCH DIMENSION SHALL APPLY.

WHERE THE DRAWINGS INDICATE A COMPRESSION EMBEDMENT, IT IS A COMPRESSION EMBEDMENT LENGTH AND IT SHALL BE AS NOTED BELOW.

WHERE THE DRAWINGS INDICATE A TENSION EMBEDMENT, IT IS A TENSION EMBEDMENT LENGTH AND SHALL BE AS NOTED BELOW.

WHERE NO EMBEDMENT OR EMBEDMENT TYPE IS CALLED FOR ON THESE DRAWINGS, IT SHALL BE A TENSION EMBEDMENT, EXCEPT FOR COLUMNS WHICH SHALL BE A COMPRESSION EMBEDMENT.

WHERE NO SPLICE OR SPLICE TYPE IS CALLED FOR ON THESE DRAWINGS, IT SHALL BE A TENSION SPLICE, EXCEPT FOR COLUMNS WHICH SHALL BE A COMPRESSION SPLICE.

IN TABLES BELOW, EMBEDMENT LENGTHS ARE SHOWN WITHOUT BRACKETS, AND SPLICE LENGTHS ARE SHOWN IN BRACKETS.

ALL LENGTHS ARE FOR $f_y = 400$ MPa REBAR.

ALL TENSION SPLICE LENGTHS ARE CLASS "B" (1.3 l_d).

COMPRESSION EMBEDMENT AND SPLICE LENGTHS

- COMPRESSION EMBEDMENT REFERS TO THE LENGTH REQUIRED TO PROVIDE THE "COMPRESSION DEVELOPMENT LENGTH" AS DEFINED IN CSA A23.3 CLAUSE 12.3.2.
- SPLICE LENGTH REFERS TO THE MINIMUM LAP LENGTH REQUIRED FOR A COMPRESSION SPLICE AS DEFINED IN CSA A23.3 CLAUSE 12.16.1.

CONCRETE STRENGTH	FUNCTION	REBAR DESIGNATION					
		10M	15M	20M	25M	30M	35M
20 MPa	EMBEDMENT	215	325	430	540	645	755
	(SPLICE)	(300)	(440)	(585)	(730)	(880)	(1025)
25 MPa	EMBEDMENT	200	290	385	480	580	675
	(SPLICE)	(300)	(440)	(585)	(730)	(880)	(1025)
30 MPa & GREATER	EMBEDMENT	200	265	355	440	530	620
	(SPLICE)	(300)	(440)	(585)	(730)	(880)	(1025)

TENSION EMBEDMENT AND SPLICE LENGTHS

- TENSION EMBEDMENT REFERS TO THE LENGTH REQUIRED TO PROVIDE A "TENSION DEVELOPMENT LENGTH" AS DEFINED IN CSA A23.3 CLAUSE 12.2.3.
- SPLICE LENGTH REFERS TO THE MINIMUM LAP LENGTH REQUIRED FOR A CLASS "B" TENSION SPLICE (1.3 l_d) AS PER CSA A23.3 CLAUSE 12.15.

CASE 1 TENSION EMBEDMENT AND SPLICE CONDITIONS

TENSION EMBEDMENT AND SPLICE LENGTHS CONFORMING TO CSA A23.3 TABLE 12.1 (0.45 $k_1 k_2 k_3 k_4 f_y d_b / \sqrt{f_c}$) ARE TO BE AS PER THE FOLLOWING TABLE FOR:

- COLUMNS
- TWO WAY SLABS
- SEE ALSO NOTES ON TOP BARS.
- MEMBERS WHICH DO NOT SATISFY THE ABOVE CONDITIONS SHALL HAVE TENSION EMBEDMENTS AND SPLICES AS PER CASE 2 TABLE BELOW.

CONCRETE STRENGTH	FUNCTION	REBAR DESIGNATION					
		10M	15M	20M	25M	30M	35M
20 MPa	EMBEDMENT	325	485	645	1010	1210	1410
	(SPLICE)	(420)	(630)	(840)	(1310)	(1570)	(1835)
25 MPa	EMBEDMENT	300	435	580	900	1080	1260
	(SPLICE)	(390)	(565)	(750)	(1170)	(1405)	(1640)
30 MPa	EMBEDMENT	300	395	530	825	990	1155
	(SPLICE)	(390)	(515)	(685)	(1070)	(1285)	(1500)
35 MPa	EMBEDMENT	300	370	490	765	915	1065
	(SPLICE)	(390)	(475)	(635)	(990)	(1190)	(1385)

- NOTES: - "TOP BAR" VALUES ARE 1.3 TIMES THE ABOVE LENGTHS.
"TOP BAR" APPLIES TO HORIZONTAL REINFORCEMENT CAST WITH 300 mm OR MORE OF CONCRETE BELOW THE BAR.

CASE 2 TENSION EMBEDMENT AND SPLICE CONDITIONS

TENSION EMBEDMENT AND SPLICE LENGTHS CONFORMING TO CSA A23.3 TABLE 12.1 (0.6 $k_1 k_2 k_3 k_4 f_y d_b / \sqrt{f_c}$) ARE TO BE AS PER THE FOLLOWING TABLE FOR MEMBERS NOT SATISFYING CASE 1 CONDITIONS AS SET OUT ABOVE. FOR EXAMPLE:

- BARS (EXCLUDING THE SPLICE) SPACED CLOSER TOGETHER THAN 2 BAR DIAMETERS.
- SEE ALSO NOTES ON TOP BARS

CONCRETE STRENGTH	FUNCTION	REBAR DESIGNATION					
		10M	15M	20M	25M	30M	35M
20 MPa	EMBEDMENT	430	645	860	1345	1610	1880
	(SPLICE)	(560)	(840)	(1120)	(1745)	(2095)	(2445)
25 MPa	EMBEDMENT	385	580	770	1200	1440	1680
	(SPLICE)	(500)	(750)	(1000)	(1560)	(1875)	(2185)
30 MPa	EMBEDMENT	355	530	705	1100	1315	1535
	(SPLICE)	(460)	(685)	(915)	(1425)	(1710)	(1995)
35 MPa	EMBEDMENT	325	490	650	1015	1220	1420
	(SPLICE)	(425)	(635)	(845)	(1320)	(1585)	(1850)

- NOTES: - "TOP BAR" VALUES ARE 1.3 TIMES THE ABOVE LENGTHS.
"TOP BAR" APPLIES TO HORIZONTAL REINFORCEMENT CAST WITH 300 mm OR MORE OF CONCRETE BELOW THE BAR.



DO NOT SCALE DRAWINGS

NO.	DESCRIPTION	DATE
06	ISSUED FOR TENDER	2019-01-10
05	ISSUED FOR 99%	2018-10-18
04	ISSUED FOR 90% UPDATE	2018-10-03
03	ISSUED FOR 90% REVIEW	2018-08-20
02	ISSUED FOR 60%	2018-05-04
01	ISSUED FOR 30% REVIEW	2018-03-28

Client / client



Parks Canada
Parcs Canada

Project title/Titre du projet

PCA - ROGERS PASS WASHROOM FACILITY

Approved by/Approuvé par

DP

Designed by/Concept par

DP

Drawn by/Dessiné par

ACB

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'Ingénierie

Parks Canada

Client / client

Parks Canada

Drawing title / Titre du dessin

GENERAL NOTES AND TYPICAL DETAILS

Project No. / No. du projet

CAI 752

Sheet / Feuille

S-102

Revision no. /
La Révision
no.



NAILING

- NAILING SHALL CONFORM TO THE BUILDING CODE PART 9, AND "WOOD BUILDING TECHNOLOGY" PUBLISHED BY THE CANADIAN WOOD COUNCIL. NAILING CALLED UP ON THESE DRAWINGS (I.E. FOR SHEATHING) IS BASED ON COMMON NAILS. SEE NOTE 10 UNDER MATERIALS FOR COMMON NAIL SIZES.
- UNLESS NOTED OTHERWISE NAIL ALL WALL, FLOOR AND ROOF SHEATHING WITH 65 mm NAILS AT 150 mm O/C AT SUPPORTED EDGES OF SHEATHING SHEETS, AND AT 250 mm O/C FOR FLOORS AND AT 300 mm O/C FOR ROOFS AT INTERMEDIATE SUPPORTS TO ALL SUPPORTING MEMBERS. FLOOR SHEATHING SHALL BE NAILED WITH SPIRAL NAILS AND SHALL BE GLUED TO THE JOISTS IN ADDITION TO NAILING. IF SMALLER DIAMETER NAILS (I.E. PNEUMATICALLY DRIVEN NAILS OR P-NAILS) ARE USED, INCREASE THE NUMBER OF NAILS BY 33%. SEE SHEAR WALL SCHEDULE OR DIAPHRAGM NAILING SCHEDULE FOR ADDITIONAL REQUIREMENTS.
- DO NOT USE PNEUMATICALLY DRIVEN NAILS WITH JOIST HANGERS OR CONNECTING HARDWARE. NAILS FOR HARDWARE SHOULD BE AS SPECIFIED OR SUPPLIED BY MANUFACTURER.
- DO NOT USE PNEUMATICALLY DRIVEN NAILS IN SHEAR WALL SHEATHING UNLESS THE NAILS MEET THE LENGTH AND DIAMETER OF NOTE 9 UNDER MATERIALS.

MOISTURE BARRIERS

- PROVIDE A MOISTURE BARRIER BETWEEN WOOD ELEMENTS AND ALL CONCRETE OR MASONRY. THIS CAN BE A SHEET OF LIGHT-GAUGE (0.61 mm MINIMUM) GALVANIZED METAL, ASPHALT IMPREGNATED BUILDING PAPER (7.5 kg PER 10 m²), CLOSED-CELL FOAM GASKET MATERIAL, TYPE S ROLL ROOFING, SHEET POLYETHYLENE NOT PERMITTED. ALL JUNCTIONS AND TERMINATIONS TO BE LAPPED (50 mm MINIMUM) AND SEALED. BUTT JOINTS IN MOISTURE BARRIERS NOT PERMITTED.

WOOD FRAMING

GENERAL

- ALL DESIGN, DETAILS, MATERIALS AND CONSTRUCTION PROCEDURES SHALL CONFORM TO CURRENT EDITIONS OF THE FOLLOWING AS A MINIMUM:
 - NATIONAL BUILDING CODE 2015
 - CAN/CSA-086 - ENGINEERING DESIGN IN WOOD
 - CSA O121 - DOUGLAS FIR PLYWOOD
 - CAN/CSA-LO 4000 - PARALLAMS AND MICROLLAMS
 - CAN/CSA-O122 - STRUCTURAL GLUED-LAMINATED TIMBER
 - CAN/CSA-O177 - QUALIFICATION CODE FOR MANUFACTURERS OF STRUCTURAL GLUED-LAMINATED TIMBER
 - CSA O437 SERIES - STANDARDS FOR OSB AND WAFERBOARD
 - CSA B111 - WIRE NAILS, SPIKES AND STAPLES
 - CAN/CSA-B34 - MISCELLANEOUS BOLTS AND SCREWS
 - CANADIAN WOOD-FRAME HOUSE CONSTRUCTION-CMHC
 - "WOOD DESIGN MANUAL" - CANADIAN WOOD COUNCIL
 - "WOOD BUILDING TECHNOLOGY" - CANADIAN WOOD COUNCIL
- ANY CHANGES TO THE FRAMING SHOWN ON THESE DRAWINGS SHALL HAVE PRIOR WRITTEN APPROVAL OF RJC. FRAMING CHANGES WHICH HAVE NOT BEEN SO APPROVED WILL BE REJECTED.
- CONFIRM ALL DIMENSIONS AND OUTLINES WITH THE ARCHITECTURAL DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONS, ELEVATIONS AND DETAILS.
- ANY TIMBER NOT GRADE MARKED WILL BE REJECTED.
- FINISHES SHALL BE DETAILED TO ACCOMMODATE SHRINKAGE OF THE TIMBER OVER TIME.
- DO NOT COVER WOOD FRAMING WITH FINISHES UNTIL RJC'S FRAMING REVIEW IS COMPLETE. PROVIDE 24 HOURS ADVANCE NOTIFICATION WHEN FRAMING REVIEWS ARE REQUIRED.
- NOTCHING AND DRILLING OF STRUCTURAL ELEMENTS SHALL FOLLOW THE GUIDELINES SET FORTH IN THE BUILDING CODE PART 9, UNLESS OTHERWISE APPROVED IN WRITING BY RJC.
- ALL TIMBER ELEMENTS ARE DESIGNED FOR DRY-SERVICE CONDITIONS. SEE ARCHITECTURAL DRAWINGS FOR WATERPROOFING AND VENTILATION DETAILS.
- ALL WOOD FRAME CONSTRUCTION SHALL SATISFY THE FOLLOWING CONSTRUCTION TOLERANCES AS A MINIMUM. REFER TO ARCHITECTURAL AND WARRANTY REQUIREMENTS FOR ADDITIONAL TOLERANCE SPECIFICATIONS.
 - FLOORS** - NOT MORE THAN 6 mm IN 3 m OUT OF LEVEL.
 - WALLS** - NOT MORE THAN 6 mm IN 2.4 m OUT OF PLUMB. NOT MORE THAN 6 mm IN 3 m FOR ANY BOWING.
 - OVERALL** - BUILDING WALLS AND FLOORS SHALL NOT BE MORE THAN 10 mm DIFFERENCE IN MEASUREMENT FROM DIMENSIONS SHOWN ON CONTRACT DOCUMENTS.

MATERIALS

- STUDS AND BUILT-UP POSTS** TO BE D.FIR-L. SELECT GRADE OR BETTER. REFER TO WOOD SHEAR WALL NOTES FOR ADDITIONAL REQUIREMENTS.
- BUILT-UP BEAMS AND HEADERS** TO BE D.FIR-L. GRADE OR BETTER.
- WALL PLATES** TO BE D.FIR-L. GRADE WALL PLATES SHALL BE KILN-DRIED AND MAY BE FINGER JOINTED EXCEPT IN SHEAR WALLS.
- POSTS AND BEAMS** TO BE D.FIR-L #1 FULL ROUGH GRADE OR BETTER.
- ALL DIMENSION LUMBER TO BE SURFACED FOUR SIDES ("S4S").
- PLYWOOD** TO BE DOUGLAS FIR SHEATHING GRADE.
- O.S.B.** TO CONFORM TO CSA O325.
- TIMBER CONNECTION HARDWARE** TO BE SIMPSON STRONG-TIE, OR EQUIVALENT APPROVED BY RJC. COMPLETE WITH NAILS SUPPLIED BY MANUFACTURER. DO NOT USE P NAILS.
- NAILS** SHALL BE COMMON ROUND STEEL WIRE NAILS. NAILS ARE CALLED UP BY LENGTH AND SHALL CONFORM TO THE FOLLOWING TABLE:

LENGTH	DIAMETER	PENNY-WEIGHT
50 mm (2")	2.84 mm (0.113")	6d
65 mm (2 1/2")	3.25 mm (0.131")	8d
75 mm (3")	3.66 mm (0.148")	10d
80 mm (3 1/4")	3.66 mm (0.148")	12d
90 mm (3 1/2")	4.06 mm (0.162")	16d
100 mm (4")	4.88 mm (0.192")	20d
115 mm (4 1/2")	5.38 mm (0.225")	30d
125 mm (5")	5.89 mm (0.244")	40d

NOTE: SPIRAL OR PNEUMATIC NAILS MAY BE USED IF THEY CONFORM TO THE TABLE ABOVE.

- MISCELLANEOUS STEEL** TO BE CSA G40.21 OR APPROVED EQUAL.
- ANCHOR RODS** SHALL BE ASTM F1554 GRADE 36 OR APPROVED EQUIVALENT. ANCHOR RODS SHALL BE DEFORMED, THREADED ALONG THEIR FULL LENGTH OR HOOKED 40 mm AT THE BOTTOM.
- BOLTS** SHALL BE ASTM A307 OR APPROVED EQUAL, USED WITH STANDARD CUT STEEL WASHERS UNLESS NOTED OTHERWISE ON DRAWINGS.
- MOISTURE CONTENT OF ALL TIMBER ELEMENTS SHALL NOT EXCEED 19% AT THE TIME OF CONSTRUCTION OR FABRICATION.
- ALL FASTENERS AND CONNECTION HARDWARE** THROUGH PRESERVATIVE TREATED MATERIALS OR OUTSIDE OF THE MOISTURE BARRIER TO BE HOT DIPPED GALVANIZED OR STAINLESS STEEL AS SPECIFIED.

MINIMUM BEND RADIUS FOR STEEL PLATES

"T" (PLATE THICKNESS)	"R" (MINIMUM INSIDE RADIUS)
0 mm TO 6 mm	3 x "T"
6 mm TO 12 mm	4 x "T"

400 MPa THREADED REINFORCING BAR ANCHOR RODS

TF (kN)	REQUIRED Ø (TURNED TO SUIT NUT) (mm)	USE THIS BAR SIZE	A325 NUT SIZE (mm)	WASHER (mm)	EMBEDMENT, SEE DRAWINGS BUT NOT LESS THAN (mm)
50	15 ±	20M	15.9 mm	38 X 38 X 6	650
73	20 ±	25M	19.0 mm	50 X 50 X 10	900
129	25 ±	30M	25.4 mm	60 X 60 X 10	1400
164	30 ±	35M	28.6 mm	70 X 70 X 10	1600
245	35 ±	45M	34.9 mm	85 X 85 X 10	1900
384	45 ±	55M	44.5 mm	100 X 100 X 10	2400

REINFORCING BARS TO BE TURNED DOWN TO A SMOOTH, CONSISTENT DIAMETER AT END BEFORE THREADING.



POST-INSTALLED ADHESIVE AND MECHANICAL ANCHORS

1.0 PRODUCTS

- MECHANICAL ANCHORS TO MEET THE ASSESSMENT CRITERIA OF ACI 308.2.
- ADHESIVE ANCHORS TO MEET THE ASSESSMENT CRITERIA OF ACI 308.4.
- EXCEPT WHERE NOTED OTHERWISE ON THE DRAWINGS, ANCHORS SHALL CONSIST OF THE FOLLOWING ANCHOR TYPES AS PROVIDED BY HILTI (CANADA) LTD. CONTACT HILTI AT (800) 363-4458 FOR PRODUCT RELATED QUESTIONS.
 - ANCHORAGE TO CONCRETE:**
 - ADHESIVE ANCHORS: [HILTI HIT-HY 200]
 - MECHANICAL ANCHORS: [HILTI KWIK BOLT 3] EXPANSION ANCHORS
 - ANCHORAGE TO SOLID GROUTED MASONRY:**
 - ADHESIVE ANCHORS: HILTI HIT-HY 70 MASONRY ADHESIVE ANCHORING SYSTEM
 - MECHANICAL ANCHORS: HILTI [KWIK BOLT 3] EXPANSION ANCHORS
 - ANCHORAGE TO HOLLOW / MULTI-WYTHE MASONRY:**
 - HILTI HIT-HY 70 MASONRY ADHESIVE ANCHORING SYSTEM. THE APPROPRIATE SIZE SCREEN TUBE SHALL BE USED PER ADHESIVE MANUFACTURER'S RECOMMENDATION.
 - UNLESS NOTED OTHERWISE, STEEL ANCHOR ELEMENT USED WITH ADHESIVE ANCHORAGE SYSTEM INTO CONCRETE OR MASONRY SHALL BE HILTI HAS-E CONTINUOUSLY THREADED ROD OR CONTINUOUSLY DEFORMED STEEL REBAR. UNMARKED THREADED ROD WILL BE REJECTED.
- ANCHOR CAPACITY USED IN DESIGN IS BASED ON ICC TEST REPORT DATA AND GUIDELINES PUBLISHED BY HILTI.
- ALTERNATE FASTENING SYSTEMS PROPOSED BY THE CONTRACTOR SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL. ALTERNATE ADHESIVE OR MECHANICAL ANCHORS MUST BE EQUAL CONSIDERING LOAD RESISTANCE. USE IN CRACKED OR UNCRACKED CONCRETE, IN SERVICE AND INSTALLATION TEMPERATURE, AVAILABILITY OF COMPREHENSIVE INSTALLATION INSTRUCTIONS, CREEP TESTING, SEISMIC TESTING, AND APPROPRIATE ON SITE TRAINING. PERFORMANCE OF ALTERNATE SYSTEMS MUST BE VALIDATED BY ICC ESR TEST REPORTS AND MUST BE QUALIFIED UNDER ACI 308.2 OR ACI 308.4 AS APPROPRIATE.
- REDESIGN OR REVIEW OF CONNECTIONS BY RJC TO UTILIZE ANCHOR SYSTEMS BY OTHER MANUFACTURERS AND REQUESTED BY THE CONTRACTOR TO BE PAID FOR BY THE CONTRACTOR.

STRUCTURAL STEEL

1.0 GENERAL

- STRUCTURAL STEEL SECTIONS SHALL BE NEW AND CONFORM TO THE FOLLOWING:
 - W AND WT SHAPES ----- CSA G40.21 GRADE 345WM / ASTM A992
 - C, L, SHAPE ----- CSA G40.21 GRADE 350W, ASTM A992, OR ASTM A572 GRADE 50
 - RECTANGULAR OR ----- CSA G40.21 GRADE 350W SQUARE HSS CLASS C OR ASTM A1085
 - ROUND HSS ----- ASTM A500 GRADE C
 - PIPE ----- ASTM A53 GRADE B
 - ROLLED PLATES AND BARS ----- CSA G40.21 GRADE 300W
 - BOLTS (SEE PLANS AND DETAILS) ----- ASTM F3125 GRADE A325 OR A490
 - STRUCTURAL STEEL ANCHOR RODS ---- ASTM F1554 (UNLESS NOTED OTHERWISE) GRADE 36 MINIMUM
 - REINFORCING BAR ANCHOR BOLTS ---- CSA G30.18 GRADE 400R

- DESIGN FORCES INDICATED ON DRAWINGS FOR STRUCTURAL STEEL WORK ARE FACTORED FORCES UNLESS NOTED OTHERWISE. FORCES ARE VERTICAL SHEAR FORCES UNLESS NOTED OTHERWISE.

METRIC

- FORCES ----- kN
- MOMENTS ----- kN-m
- LINE LOADS ----- kN/m
- DISTRIBUTED LOADS ----- kPa

SEE "DESIGN LOADS" NOTES FOR DEFINITIONS AND VALUES OF LIVE LOAD, DEAD LOAD AND SUPERIMPOSED DEAD LOAD. SEE ALSO PLANS FOR OTHER LOAD/FORCE REQUIREMENTS.

2.0 CONNECTION DESIGN BY FABRICATOR

- ALL CONNECTIONS TO BE DESIGNED BY FABRICATOR UNLESS NOTED OTHERWISE. ALL BEAM CONNECTIONS TO BE STANDARD FRAME BEAM CONNECTIONS OR EQUIVALENT, UNLESS NOTED OTHERWISE.
- PRIOR TO SUBMITTING SHOP DRAWINGS THE CONTRACTOR SHALL NOTIFY RJC IN WRITING THAT THE FABRICATOR IS CERTIFIED TO A MINIMUM OF DIVISION 2 OF CSA W47.1.
- DRAWINGS OF COMPONENTS AND CONNECTIONS DESIGNED BY THE FABRICATOR'S SPECIALTY STRUCTURAL ENGINEER SHALL BE SIGNED AND SEALED BY THIS ENGINEER OR A LETTER SHALL BE SUBMITTED AT THE END OF SHOP DRAWING PRODUCTION SIGNED AND SEALED BY THIS ENGINEER, IDENTIFYING WHAT WAS DESIGNED AND LISTING THE FINAL DRAWINGS WITH DATES AND REVISION NUMBERS.
- CONNECTIONS AND SPLICES NOT SHOWN ON THE STRUCTURAL DRAWINGS BUT REQUESTED BY THE FABRICATOR MUST BE ACCEPTABLE TO RJC AND DETAILED ON THE SHOP DRAWINGS. TESTING OF THESE CONNECTIONS SHALL BE AT THE DISCRETION OF RJC AND TO THE CONTRACTORS ACCOUNT.
- SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO START OF STEEL FABRICATION. ALSO REFER TO "SHOP DRAWINGS" NOTE IN THE GENERAL NOTES SECTION OF THE STRUCTURAL DRAWINGS.

3.0 FABRICATION AND DETAILING

- FABRICATION, ERECTION, STRUCTURAL DESIGN, AND DETAILING OF ALL STEEL SHALL BE IN ACCORDANCE WITH CSA S16.
- FILLET WELDS SHALL BE 5 mm MINIMUM UNLESS NOTED OTHERWISE.
- BOLTS SHALL BE 3/4" MINIMUM A325 UNLESS NOTED OTHERWISE.
- BOLTED CONNECTIONS SHALL HAVE A MINIMUM OF TWO BOLTS IN EACH CONNECTED PIECE AND BE DESIGNED AS BEARING CONNECTIONS, U.N.O.
- IN ADDITION TO ALL OTHER CRITERIA SPECIFIED IN ASTM F1554, ALL HOOKED ANCHOR RODS IN CONCRETE SHALL BE MANUFACTURED WITH A MINIMUM INSIDE BEND RADIUS OF 3 TIMES THE ROD DIAMETER, UNLESS NOTED OTHERWISE.
- UNLESS NOTED OTHERWISE, COLUMN CAP PLATES SHALL BE 16 mm THICK AND COLUMN BASE PLATES SHALL BE 20 mm MINIMUM THICK.
- PROVIDE 6 mm CAP PLATES FOR ALL HSS MEMBERS U.N.O.
- CONNECTION DETAILS SHOWN ON THE STRUCTURAL DRAWINGS SHALL NOT BE ALTERED BY THE CONTRACTOR WITHOUT WRITTEN APPROVAL FROM READ JONES CHRISTOFFERSEN LTD.
- STEEL SHALL BE PREPARED AND FINISHED IN ACCORDANCE WITH CSA S16 AND THE ARCHITECTURAL DRAWINGS AND PAINTING SPECIFICATIONS WHICH MAY INCLUDE ADDITIONAL CLEANING AND PRIMING REQUIREMENTS.
- ALL STRUCTURAL STEEL OUTSIDE OF THE BUILDING ENVELOPE TO BE HOT-DIP GALVANIZED UNLESS NOTED OTHERWISE.
- DESIGN DRAWINGS INCLUDE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS. SEE ALSO ARCHITECTURAL DRAWINGS FOR ROOF AND FLOOR ELEVATIONS, ROOF SLOPES, EDGE DETAILS, AND ADDITIONAL DIMENSIONS AND DETAILS. WHERE ELEVATIONS, ROOF SLOPES, ETC., ARE SHOWN ON THE STRUCTURAL DRAWINGS, THEY MUST BE CONFIRMED WITH THE ARCHITECTURAL DRAWINGS.
- UNLESS NOTED OTHERWISE, DO NOT OVERSIZE HOLES IN STEEL TO FIT ANY ANCHOR LOCATIONS. FOR COLUMN BASE PLATE HOLES, UNLESS NOTED OTHERWISE ON DRAWINGS, FOLLOW STANDARD PRACTICE WHICH IS TO USE SLIGHTLY OVERSIZED HOLES. USE 6 mm OVERSIZED HOLE DIAMETER FOR COLUMN ANCHOR RODS UP TO AND INCLUDING 27 mm DIAMETER, AND 12 mm OVERSIZED HOLE DIAMETER FOR COLUMN ANCHOR RODS GREATER THAN 27 mm DIAMETER.
- GENERAL SEISMIC REQUIREMENTS
 - WHERE CONNECTION FORCES ARE NOT SHOWN ON THE DRAWINGS, THE CONNECTION DESIGN SHALL SATISFY THE REQUIREMENTS OF CSA S16 - CLAUSE 27.
 - STEEL IN THE ENERGY DISSIPATION SYSTEM SHALL SATISFY THE LIMITS OF fy, Fu, AND CHARPY V-NOTCH IMPACT REQUIREMENTS AS NOTED IN CSA S16 - CLAUSE 27.1.5.
 - WELDS AND WELD MATERIAL SHALL SATISFY CSA S16 - CLAUSE 27.1.5.3 (CHARPY REQUIREMENTS).
 - BOLTED CONNECTIONS SHALL SATISFY CSA S16 - CLAUSE 27.1.6.



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Parcs Canada

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GENERAL NOTES AND TYPICAL DETAILS

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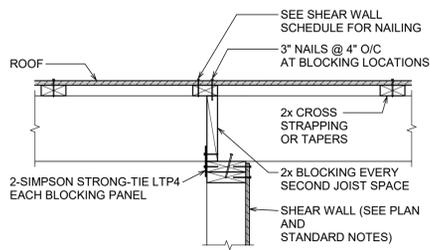
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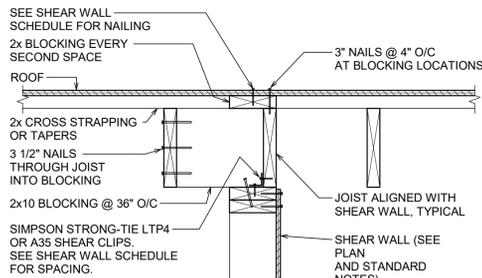
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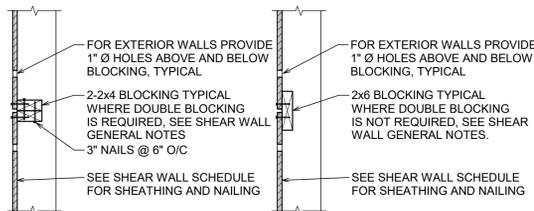




TYPICAL SHEAR WALL TO SAWN LUMBER ROOF JOIST CONNECTION WHERE JOISTS RUN PERPENDICULAR TO WALL



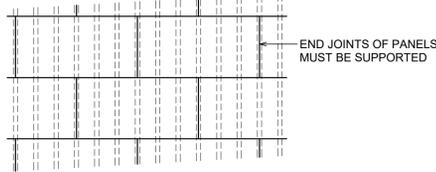
TYPICAL SHEAR WALL TO SAWN LUMBER ROOF JOIST CONNECTION WHERE JOISTS RUN PARALLEL TO WALL



TYPICAL SHEAR WALL BLOCKING DETAIL

SHEATHING

- ROOF SHEATHING** 15.5 mm TONGUE AND GROOVE PLYWOOD.
 - EXTERIOR WALL SHEATHING** 15.5 mm PLYWOOD ON EXTERIOR SIDE TYP. SEE ALSO ARCHITECTURAL FOR ADDITIONAL SHEATHING REQUIREMENTS.
 - SHEAR WALL SHEATHING** SEE SHEAR WALL SCHEDULE FOR SHEATHING REQUIREMENTS AT SHEAR WALL LOCATIONS.
- LAY FLOOR AND ROOF SHEATHING WITH THE SURFACE GRAIN AT RIGHT ANGLES TO THE JOISTS. STAGGER THE JOINTS PARALLEL TO THE JOISTS.

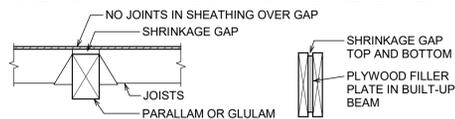


- DRYWALL OR SHEATHING ON LOAD BEARING WALLS OR SHEAR WALLS SHALL BE FASTENED DIRECTLY TO THE STUDS, WITHOUT THE USE OF RESILIENT METAL CHANNELS.

SHRINKAGE

- FRAMING DETAILS SHALL ENSURE UNIFORM VERTICAL SHRINKAGE. ADJACENT PORTIONS OF STRUCTURE SHALL BE SUPPORTED ON ROUGHLY EQUIVALENT AMOUNTS OF HORIZONTAL TIMBER (JOISTS AND SILL PLATES). DO NOT MIX KILN-DRIED AND NON-KILN DRIED JOISTS IN ANY GIVEN FLOOR.

- FRAMING DETAILS AROUND NON-SHRINKING STRUCTURAL ELEMENTS (CONCRETE, STEEL, PARALLAMS, GLULAMS, MICROLAMs, PLYWOOD ETC.) SHALL TAKE INTO ACCOUNT THE SHRINKAGE OF THE TIMBER. EXAMPLES:

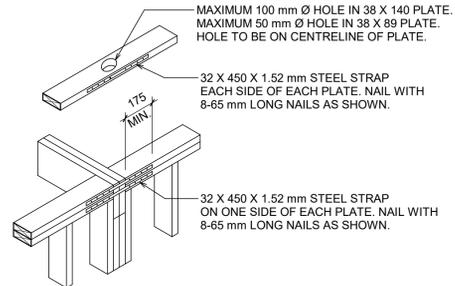


WOOD DECKING

- WOOD DECKING TO BE COMMERCIAL GRADE DOUGLAS FIR KILN DRY PLANKS TO 19% MAXIMUM MOISTURE CONTENT.
- 65 x 133 AND 89 x 133, WOOD DECKING SHALL BE PRE DRILLED WITH 6 mm Ø HOLES AT 760 mm O/C FOR LATERAL SPIKING WITH DOUBLE TONGUE AND GROOVE.
- DECKING LENGTHS TO BE 1800 mm TO 6000 mm OR LONGER WITH A MINIMUM OF 90% OF THE PLANKS EXCEEDING 3000 mm AND A MINIMUM OF 50% OF THE PLANKS EXCEEDING 6000 mm. FOR SINGLE SPANS SHORTER THAN 3000 mm, USE PLANKS OF SAME LENGTH AND SPAN.
- INSTALL PLANK DECKS TO CANCSA-086 CONTROLLED RANDOM PATTERN. EXCEPT AS NOTED.
- PROVIDE MINIMUM OF ONE BEARING SUPPORT FOR EACH PLANK (EXCEPT FOR CANTILEVERS OR SIMPLE SPANS WHICH SHALL EXTEND OVER TWO SUPPORTS AND TWO SPAN CONTINUOUS WHICH SHALL EXTEND OVER THREE SUPPORTS). INSTALL SLOPING DECKS WITH TONGUES UP.
- STAGGER END JOINTS IN ADJACENT PLANKS MINIMUM OF 500 mm SEPARATE JOINTS IN SAME AREA BY AT LEAST TWO INTERVENING COURSES. NO END JOINTS IN FIRST HALF OF END SPANS. MINIMIZE JOINTS IN MIDDLE THIRD OF ANY SPAN.
- NAIL ALL 65 mm AND 89 mm PLANKS TOGETHER Laterally WITH 200 mm SPIRAL SPIKES THROUGH PRE DRILLED 6 mm HOLES AT 760 mm O/C.
- CONNECT EACH PLANK TO SUPPORTING MEMBERS AND TOP OF EXTERIOR SHEAR WALLS WITH ONE 125 mm NAIL, TOE-NAILED, AND ONE 150 mm NAIL, FACE-NAILED, EXCEPT AS NOTED ON PLAN.
- PLANKS PARALLEL TO SPAN OF SUPPORTING MEMBERS TO BE CONNECTED TO THE SUPPORTING MEMBERS WITH 150 mm NAILS FACE-NAILED AT 300 mm O/C, EXCEPT AS NOTED ON PLAN.

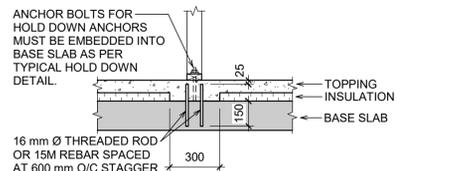
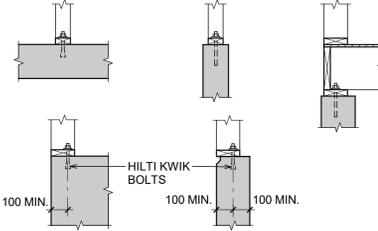
WALLS CONT.

- ALL POSTS AND BUILT-UP STUD POSTS SHOWN ON ANY LEVEL SHALL BE CARRIED DOWN TO THE CONCRETE UNLESS NOTED OTHERWISE. PROVIDE SOLID BLOCKING BETWEEN JOISTS UNDER ALL POSTS AND BUILT-UP POSTS.
- ALL LOAD BEARING WALLS SHALL HAVE 2 CONTINUOUS TOP PLATES AND 1 CONTINUOUS BOTTOM PLATE. BEAMS OR HEADERS OVER OPENINGS IN WALLS SHALL BE DROPPED TO ALLOW THE TOP PLATES TO BE CONTINUOUS. WHERE 38 mm CONCRETE TOPPING IS USED ON THE FLOORS, PROVIDE 2 CONTINUOUS BOTTOM PLATES. DOUBLE PLATES SHALL BE SPICED WITH A MINIMUM 600 mm STAGGER AND LAPPED AT CORNERS. TOP AND BOTTOM PLATES WHICH HAVE BEEN CORED OR WHICH ARE DISCONTINUOUS SHALL BE REINFORCED AS FOLLOWS:

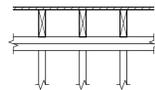


- WHERE PERMANENT SHEATHING IS NOT APPLIED TO STUDS PROVIDE BLOCKING AT 1000 mm O/C FOR 38 X 89 WALLS AND 600 mm O/C FOR 38 X 140 WALLS.
- FASTEN WOOD-FRAME STRUCTURE AT BASE BY BOLTING THE BOTTOM PLATE (SILL PLATE) TO THE CONCRETE WITH 13 mm Ø ANCHOR BOLTS AT 1200 mm O/C UNLESS NOTED OTHERWISE. ANCHOR BOLTS SHALL HAVE A MINIMUM 125 mm EMBEDMENT AND A MINIMUM 75 mm PROJECTION ABOVE THE CONCRETE. THE ANCHOR BOLTS MAY BE CAST IN PLACE OR GROUTED INTO PREDRILLED HOLES WITH THE HILTI HIT SYSTEM. HILTI KWIK BOLTS WITH A 75 mm EMBEDMENT MAY BE USED WITH A 100 mm OR GREATER EDGE DISTANCE. NON-LOAD BEARING WALLS MAY BE FASTENED WITH 3 mm Ø POWER DRIVEN FASTENERS AT 400 mm O/C (MINIMUM 20 mm PENETRATION INTO CONCRETE). FULL WIDTH OF WALLS SHALL BEAR ON CONCRETE UNLESS NOTED OTHERWISE. SEE SHEAR WALL SCHEDULE FOR ADDITIONAL ANCHORING REQUIREMENTS OF SHEAR WALLS.

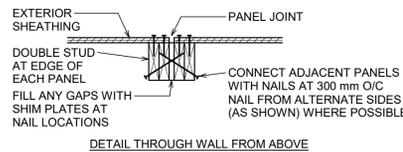
NON-SHEAR WALL ANCHORAGE EXAMPLES:



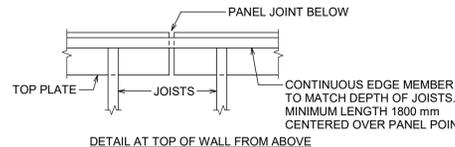
- SILL PLATES SHALL BEAR ON A LEVEL SURFACE. PROVIDE A LEVELLING BED OF MORTAR IF REQUIRED. PROVIDE A SILL GASKET UNDER SILL PLATES BEARING ON CONCRETE. SILL PLATES ON CONCRETE SEE NOTES ON "MOISTURE BARRIERS" FOR SILL GASKET REQUIREMENTS.
- WHERE THE SPACING OF JOISTS OR ROOF TRUSSES MATCHES THE SPACING OF THE STUDS IN THE SUPPORTING WALL (OR A MULTIPLE THEREOF), EACH JOIST OR TRUSS SHALL BEAR DIRECTLY OVER A STUD.



- WHEN LIFT-WALL CONSTRUCTION IS USED FOR EXTERIOR WALLS, THE ADJACENT WALL PANELS SHALL BE WELL CONNECTED. THE FOLLOWING DETAIL MAY BE USED:



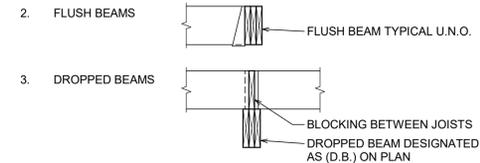
DETAIL THROUGH WALL FROM ABOVE



DETAIL AT TOP OF WALL FROM ABOVE

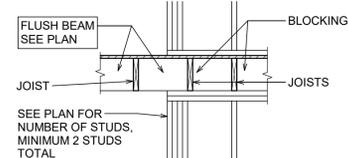
BEAMS

- BUILT-UP BEAMS (I.E. 3-38 X 235) SHALL BE NAILED TOGETHER WITH 2 ROWS OF 75 mm NAILS, EACH ROW WITH NAILS AT 300 O/C. INDIVIDUAL MEMBERS MAY NOT BE SPICED BETWEEN SUPPORTS. FOR ENGINEERED PRODUCTS, NAILING REQUIREMENTS OF LAMINATES SHALL BE SPECIFIED ON ENGINEERED SHOP DRAWINGS PROVIDED BY BEAM SUPPLIER.

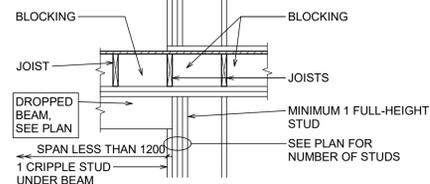


- U.N.O. ALL EXTERIOR WALL BEAMS, INTERIOR WALL BEAMS, AND DOOR HEADER BEAMS ARE DROPPED, UNLESS NOTED OTHERWISE ALL OTHER INTERIOR BEAMS ARE FLUSH.
- USE 2-38 x 235 BEAMS OVER ALL OPENINGS IN BEARING WALLS UNLESS NOTED OTHERWISE. BEAMS SHALL BE SUPPORTED AT EACH END AS SHOWN BELOW UNLESS NOTED OTHERWISE.

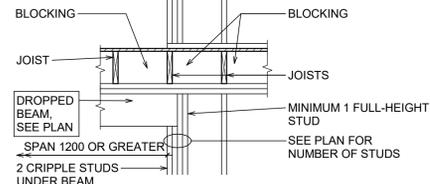
A. CASE 1 - FLUSH BEAM:



B. CASE 2 - DROPPED BEAM - OPENING LESS THAN 1200 mm:

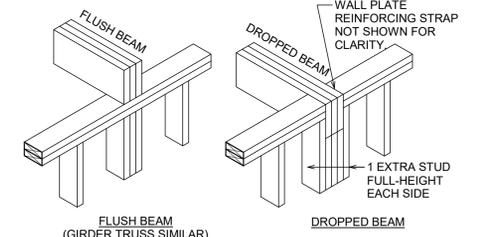


C. CASE 2 - DROPPED BEAM - OPENING 1200 mm OR GREATER:



WALLS

- LOAD BEARING WALLS:** DENOTED ON PLAN THUS.
- ALL EXTERIOR WALLS ARE LOAD BEARING. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS WHERE WIDER STUDS ARE USED (I.E. BATHROOM PLUMBING WALLS).
- SEE TYPICAL DETAILS FOR LOAD BEARING WALL CONNECTIONS FLOORS U.N.O.
- UNLESS NOTED OTHERWISE, PROVIDE A BUILT-UP STUD POST AT THE ENDS OF ALL BEAMS AND GIRDER TRUSSES FRAMING INTO A WALL. THE BUILT-UP STUD POST SHALL MATCH THE WIDTH OF THE BEAM, AND THE STUD SIZE SHALL MATCH THOSE IN THE WALL U.N.O. ON PLAN.



- NAILING OF BUILT-UP STUD POSTS SHALL CONFORM TO THE FOLLOWING SCHEDULE. EACH STUD OF BUILT-UP POST SHALL BE NAILED.

STUD	NAILING
38 X 89	75 mm NAILS @ 220 mm O/C
38 X 140	2 - ROWS OF 75 mm NAILS @ 220 mm O/C
38 X 184	2 - ROWS OF 75 mm NAILS @ 220 mm O/C



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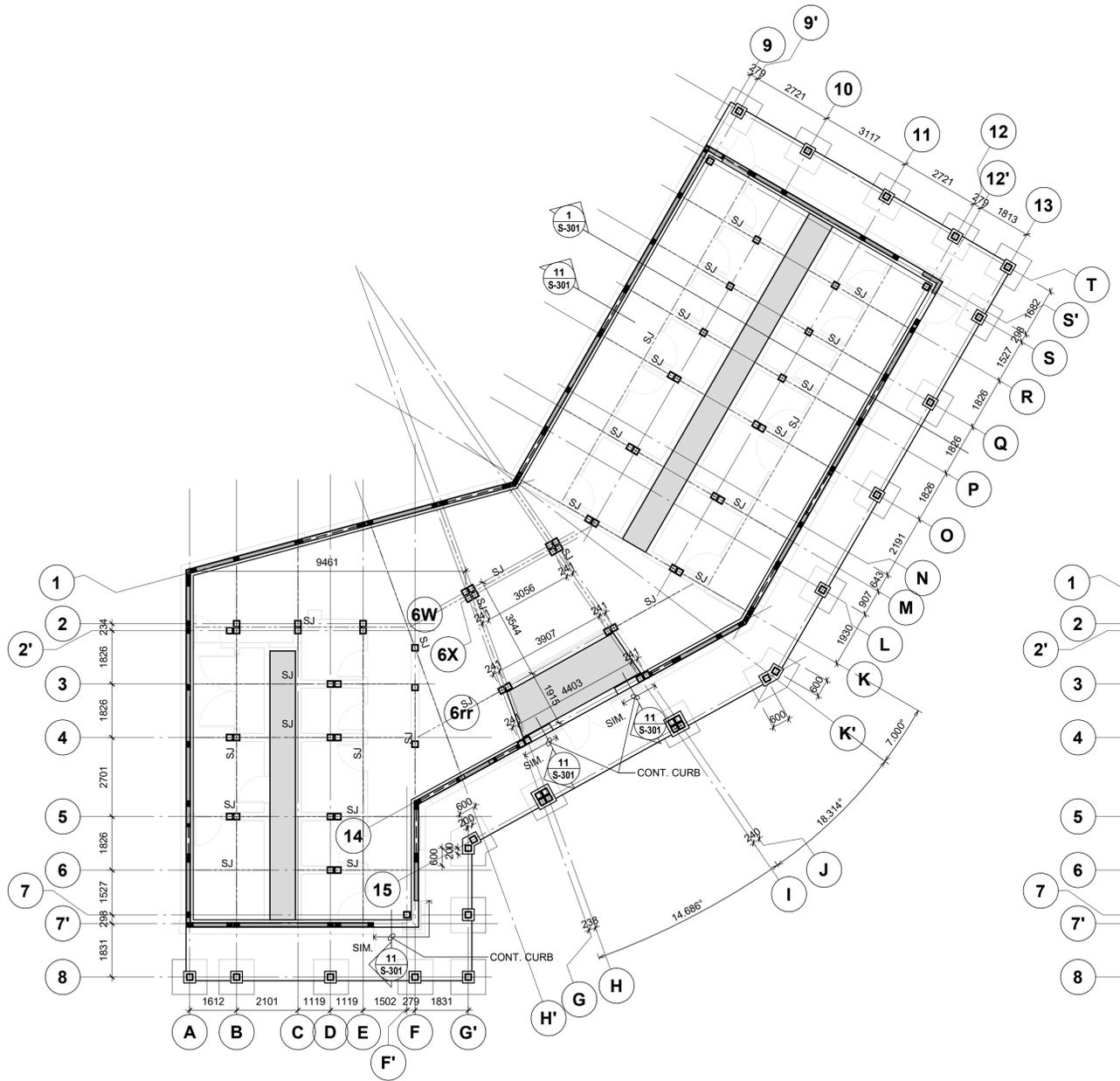
GENERAL NOTES AND TYPICAL DETAILS



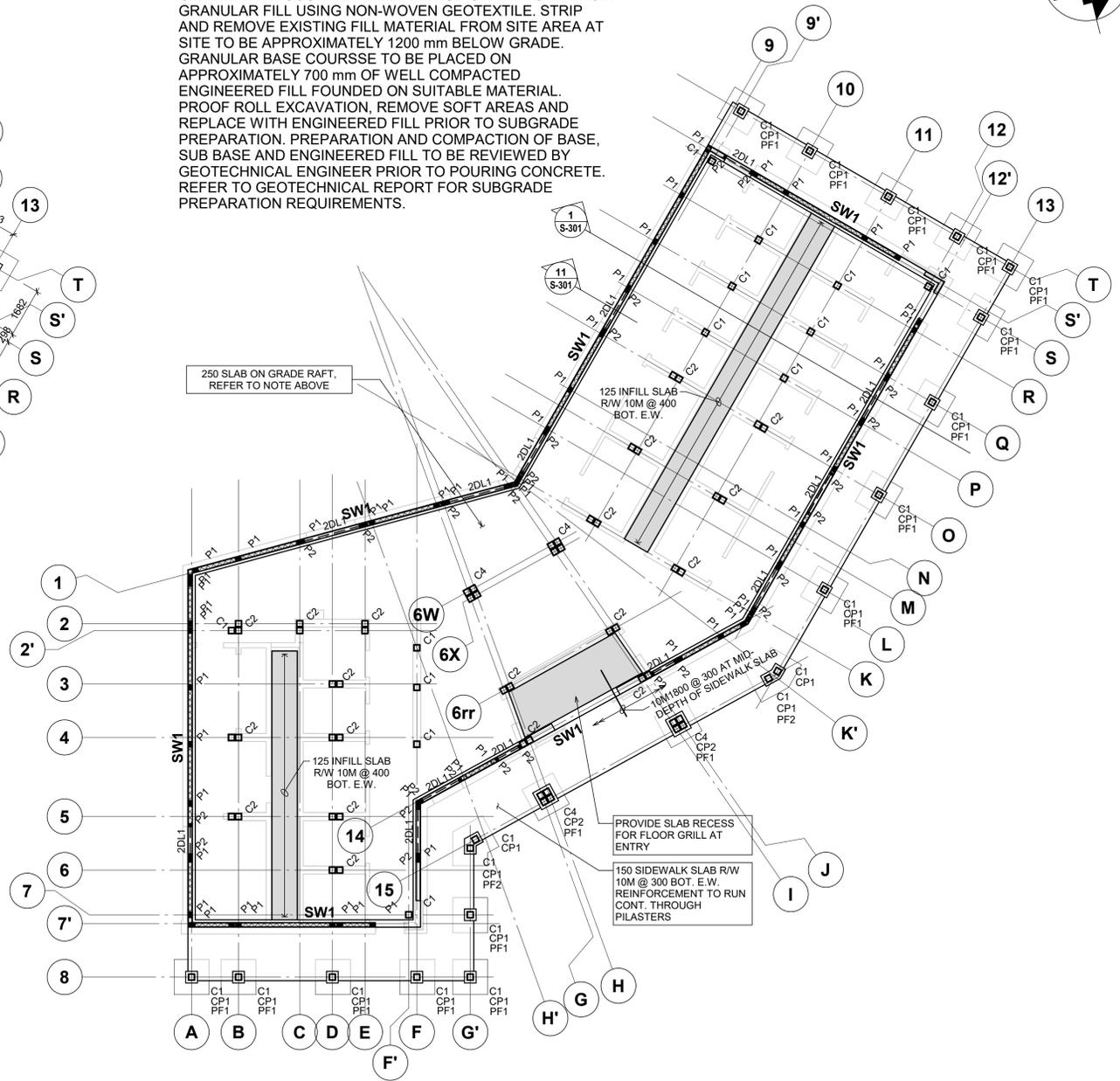


CONCRETE SLAB ON GRADE NOTE

1) NEW 250 mm CONCRETE RAFT SLAB R/W 15M @ 250 mm E.W. TOP & BOT. ON 250 mm COMPACTED 25 mm CRUSHED GRAVEL BASE COURSE. SEPARATE SUB GRADE SOILS FROM GRANULAR FILL USING NON-WOVEN GEOTEXTILE. STRIP AND REMOVE EXISTING FILL MATERIAL FROM SITE AREA AT SITE TO BE APPROXIMATELY 1200 mm BELOW GRADE. GRANULAR BASE COURSE TO BE PLACED ON APPROXIMATELY 700 mm OF WELL COMPACTED ENGINEERED FILL FOUNDED ON SUITABLE MATERIAL. PROOF ROLL EXCAVATION, REMOVE SOFT AREAS AND REPLACE WITH ENGINEERED FILL PRIOR TO SUBGRADE PREPARATION. PREPARATION AND COMPACTION OF BASE, SUB BASE AND ENGINEERED FILL TO BE REVIEWED BY GEOTECHNICAL ENGINEER PRIOR TO POURING CONCRETE. REFER TO GEOTECHNICAL REPORT FOR SUBGRADE PREPARATION REQUIREMENTS.



2 MAIN FLOOR FRAMING AND FOUNDATION DIMENSION PLAN
S-201 1:100



1 MAIN FLOOR FRAMING AND FOUNDATION PLAN
S-201 1:100

CONCRETE NOTES

- 1) ALL EXPOSED CONCRETE IS CLASSIFIED AS ARCHITECTURALLY EXPOSED CONCRETE. REFER TO ARCHITECTURAL & LANDSCAPE DRAWINGS FOR FINISH REQUIREMENTS.
- 2) CONSTRUCTION JOINTS AND SAW CUTS ARE ONLY PERMITTED WHERE INDICATED ON THE DRAWINGS.
- 3) ALL CONCRETE TO BE WET CURED FOR 10 DAYS MINIMUM.
- 4) NOTE THAT CONCRETE RAFT SLAB IS A HEATED SLAB. COORDINATE HEATING LINE REQUIREMENTS WITH SLAB REINFORCEMENT. REFER TO MECHANICAL DRAWINGS FOR FURTHER INFORMATION.
- 5) PRE-POUR MEETING IS REQUIRED FOR ALL TRADES AND CONSULTANTS.
- 6) SJ REFERS TO "SLAB CONTROL JOINT", REPRESENTED AS: ---
- 7) REFER TO GENERAL NOTES FOR DETAILS.
- 8) REFER TO DETAIL 11/S301 FOR TYPICAL CONCRETE CURB AT WALL SECTIONS

SHEAR WALL NAILING SCHEDULE
SW1

SHEATHING	15.5 mm PLYWOOD EACH SIDE OF WALL
NAILING	75 mm NAILS @ 75 mm O/C
END POSTS	5 PLY 38x140
SILL ANCHORS	3/4" @ 1200 O/C
STUDS	D.FIR-L SELECT @ 400 O/C

CONCRETE PILASTER SCHEDULE

MARK	SIZE	REINFORCING
CP1	406x406	4-15M VERT. H.1.E. 10M TIES @ 160
CP2	655x655	12-15M VERT. H.1.E. 10M TIES @ 160

PAD FOOTING SCHEDULE

MARK	SIZE	REINFORCING
PF1	1200 X 1200 X 400 DEEP FOOTING	5-15M BOT. E.W.
PF2	1200 WIDE X 400 DEEP FOOTING REFER TO PLAN FOR LENGTH	5-15M BOT. E.W.

DIMENSIONAL LUMBER BEAM SCHEDULE

MARK	SIZE	NAILING
2DL1	2-PLY 38x235	2 ROWS OF 3" NAILS, EACH ROW WITH NAILS AT 12" O/C

ROUGH SAWN TIMBER BEAM SCHEDULE

MARK	SIZE	NAILING
TB1	203x305mm D.FIR-L NO. 1 FULL ROUGH	REFER TO DRAWING S-202

ROUGH SAWN TIMBER POST SCHEDULE

MARK	SIZE	DESCRIPTION
C1	203x203 D.FIR-L NO. 1 FULL ROUGH	SINGLE POST
C2	203x203 D.FIR-L NO. 1 FULL ROUGH	GROUP OF TWO
C4	203x203 D.FIR-L NO. 1 FULL ROUGH	GROUP OF FOUR

BUILT-UP LUMBER POST SCHEDULE

MARK	SIZE	NAILING
P1	5-PLY 38x140 D.FIR-L SELECT	REFER TO GENERAL NOTES
P2	2-PLY 38x140 D.FIR-L SELECT	REFER TO GENERAL NOTES

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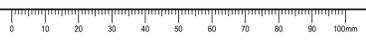
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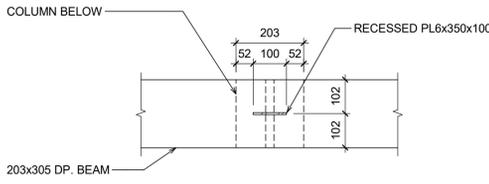
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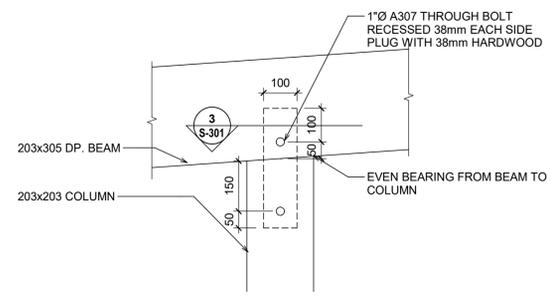
MAIN FLOOR FRAMING PLANS

Project No. / No. du projet	Sheet / Feuille	Revision no. / La Révision no.
CAI 752	S-201	

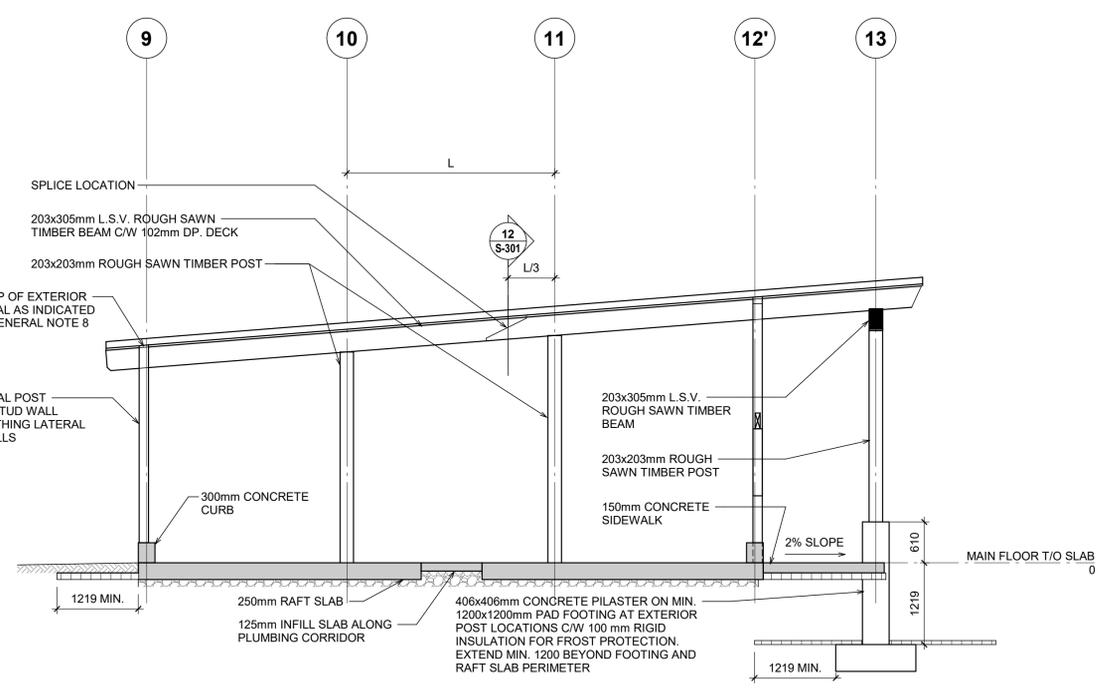




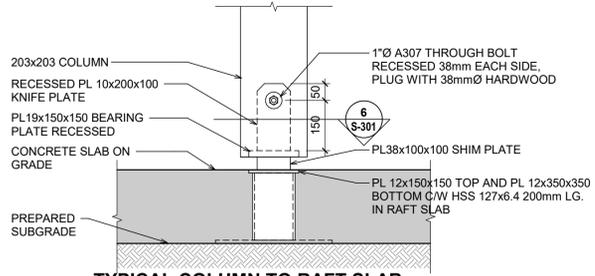
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S-301 **TYPICAL COLUMN TO BEAM SECTION**
1:10



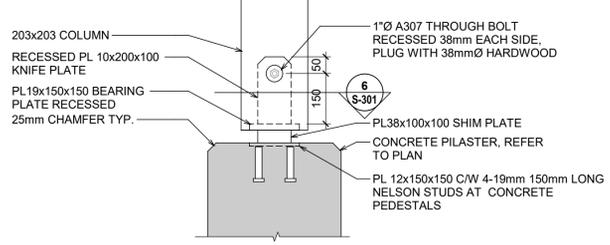
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S-301 **TYPICAL COLUMN TO BEAM CONNECTION**
1:10



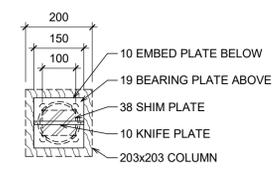
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S-301 **TYPICAL SECTION**
1:50



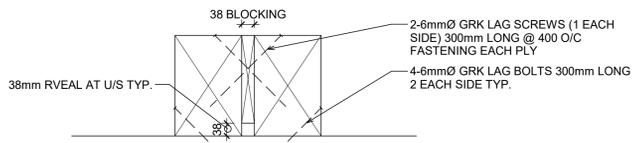
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S-301 **TYPICAL COLUMN TO RAFT SLAB CONNECTION**
1:10



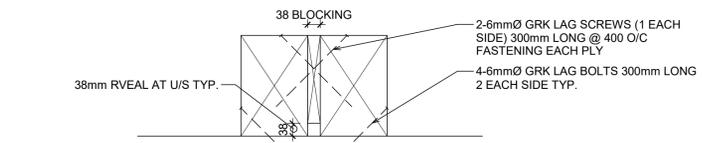
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S-301 **TYPICAL COLUMN TO PILASTER CONNECTION**
1:10



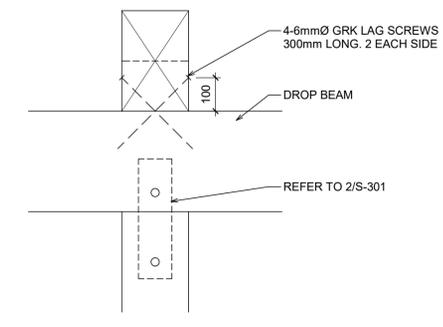
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S-301 **TYPICAL COLUMN BEARING PLATE SECTION**
1:10



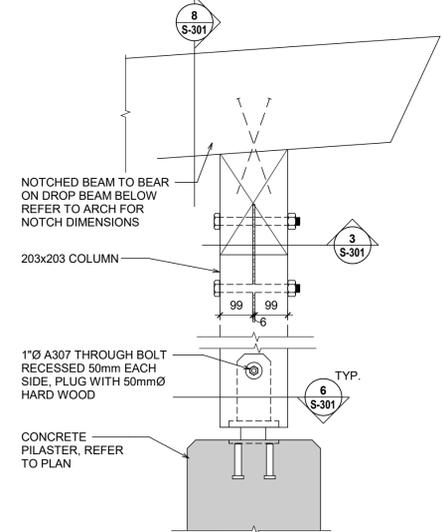
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S-301 **TYPICAL QUAD AND DOUBLE COLUMN TO RAFT SLAB CONNECTION**
1:10



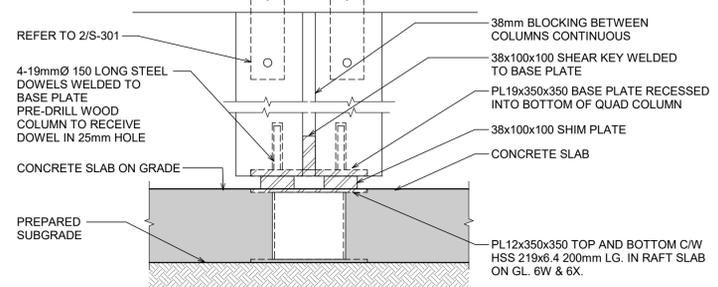
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S-301 **TYPICAL QUAD AND DOUBLE COLUMN TO PILASTER CONNECTION**
1:10



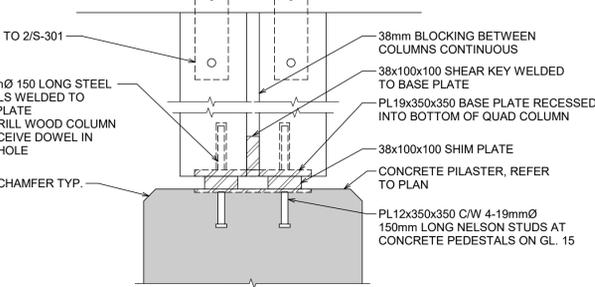
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S-301 **TYPICAL DROPPED BEAM TO COLUMN SECTION**
1:10



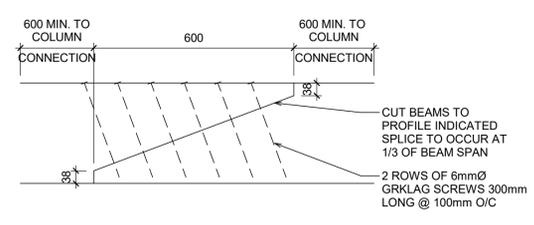
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S-301 **TYPICAL DROPPED BEAM TO COLUMN CONNECTION**
1:10



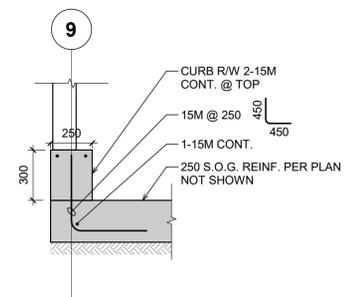
14
S-301 **PROPANE TANK SLAB DETAIL**
N.T.S.



13
S-301 **TYPICAL QUAD COLUMN BASE DETAIL**
1:10



12
S-301 **TYPICAL SPLICE DETAIL**
1:10



11
S-301 **TYPICAL CURB AT WALL SECTION**
1:20

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01	ISSUED FOR 30% REVIEW	2018-03-28



PCA - ROGERS PASS WASHROOM FACILITY

Approved by/Approve par
DP

Designed by/Concept par
DP

Drawn by/Dessine par
ACB

Project Manager/Administrateur de Projets

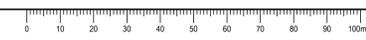
Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'ingénierie

Client / client
Parks Canada

Drawing title / Titre du dessin

SECTIONS AND DETAILS

Project No. / No. du projet	Sheet / Feuille	Revision no. / La Révision no.
CAI 752	S-301	



ROGERS PASS WASHROOM FACILITY

ISSUED FOR TENDER
18/12/13



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MECHANICAL SHEET LIST

Sheet Number	Sheet Name
M0	MECHANICAL LEGEND
M0S1	M0S1 - MECHANICAL SITE PLAN
M1	FLOOR PLAN - DRAINAGE LAYOUT
M2	FLOOR PLAN - PLUMBING LAYOUT
M3	FLOOR PLAN - H.V.A.C. LAYOUT
M4	FLOOR PLAN - HYDRONIC LAYOUT
M5	MECHANICAL DETAILS
M6	MECHANICAL SCHEDULES

PLUMBING LEGEND	
--- S ---	SANITARY BELOW
--- S ---	SANITARY ABOVE
--- EXSAN ---	EXISTING SANITARY
--- V ---	SANITARY VENT
--- ST ---	STORM BELOW
--- ST ---	STORM ABOVE
--- EXST ---	EXISTING STORM LINE
--- CDP ---	CONDENSATE PIPE
--- G ---	GAS LINE
--- R ---	RADON LINE
--- P ---	PROPANE GAS LINE
---	DOMESTIC COLD WATER
---	DOMESTIC HOT WATER - 140°F
---	DOMESTIC HOT WATER RECIRC
--- NP ---	NON-POTABLE WATER LINE
--- EXCW ---	EXISTING DOMESTIC COLD WATER
--- HWS ---	HEATING SUPPLY LINE
--- HWR ---	HEATING RETURN LINE
--- HWRR ---	HEATING REVERSE RETURN LINE
--- CHWS ---	CHILLED WATER SUPPLY LINE
--- CHWR ---	CHILLED WATER RETURN LINE
--- CHWRR ---	CHILLED WATER REVERSE RETURN
--- EX ---	EXISTING LINE
C.O. --- C.O. ---	CLEAN OUT BELOW/ABOVE GRADE
~	PIPE BREAK
FD	FLOOR DRAIN
HD	HUB DRAIN
AD	AREA DRAIN
PD	PLANTER DRAIN
RD	ROOF DRAIN
X	SHUT OFF VALVE
X	GLOBEBALANCING VALVE
X	CONTROL VALVE
J	STRAINER
X	RELIEF VALVE
X	SOLENOID VALVE
P	PRESSURE GAUGE
TS	TEMPERATURE SENSOR
T	THERMOMETER
Z	BACKFLOW PREVENTOR
CV	CHECK VALVE
H	HOSE BIBB
P	PUMP
P-TRAP	P-TRAP
LB	LAUNDRY BOX
PRV	PRESSURE REDUCING VALVE
G	GAS COCK
G	GAS METER
M	WATER METER
•	COLD WATER CW STOPS
•	HOT WATER CW STOPS
▶	DIRECTION OF FLOW
○	PIPE RISE
○	PIPE DROP
○	PIPE TEE DOWN
○	PIPE TEE UP

H.V.A.C. LEGEND	
□	SUPPLY AIR DUCT
□	RETURN AIR DUCT
□	EXHAUST AIR DUCT
□	FRESH AIR DUCT
○	SUPPLY AIR DIFFUSER
○	ROUND S/A DIFFUSER
■	SUPPLY AIR GRILLE
■	MAKE-UP AIR DIFFUSER
—	LINEAR DIFFUSER
—	DOOR GRILLE
■	RETURN AIR GRILLE
↑	SIDE WALL SUPPLY GRILLE
↓	SIDE WALL RETURN GRILLE
—	LOUVER
—	EXHAUST HOOD
—	FLEX DUCT
□	EXHAUST GRILLE
—	DUCT BREAK
—	BALANCING DAMPER
—	BACKDRAFT DAMPER
—	MOTORIZED DAMPER
—	FIRE DAMPER
—	OPPOSED BLADE DAMPER
—	FIRE AND SMOKE DAMPER COMBINATION
—	SMOKE DAMPER
⊕	THERMOSTAT
⊕	REMOTE SENSOR
⊕	CONTROLLER
→	AIR DIRECTION ARROW
—	DOOR UNDERCUT (1" DEPTH)
▶	DIRECTION OF FLOW
CO NO2	CARBON MONOXIDE SENSOR
□	EXHAUST FAN
□	SIDE WALL EXHAUST FAN
—	INFRARED HEATER
—	FORCE FLOW HEATER
—	BASE BOARD HEATER
—	NEW DUCT
—	ACOUSTICALLY LINED DUCTWORK
—	THERMALLY INSULATED DUCTWORK
—	DEMOLITION
R	RELOCATE

ABBREVIATION	
SAD	SUPPLY AIR DUCT
RAD	RETURN AIR DUCT
EAD	EXHAUST AIR DUCT
FAD	FRESH AIR DUCT
BD	BALANCING DAMPER
FD	FIRE DAMPER
CW	COME WITH
T/A	TO ABOVE
T/B	TO BELOW
F/A	FROM ABOVE
F/B	FROM BELOW
S/A	SUPPLY AIR
R/A	RETURN AIR
E/A	EXHAUST AIR
O/A	OUTSIDE AIR
DUC	DOOR UNDERCUT
RTU	ROOF TOP UNIT
FCU	FAN COIL UNIT
MUA	MAKE UP AIR UNIT
VAV	VARIABLE AIR VOLUME
CAV	CONSTANT AIR VOLUME
EF	EXHAUST FAN
FUR	FURNACE UNIT
CU	CONDENSING UNIT
CH	CHILLER UNIT
FF	FORCE FLOW UNIT
BB	BASEBOARD UNIT
IF	INFRARED HEATING UNIT
AC	AIR COMPRESSOR
DCW	DOMESTIC WATER
DHW	HOT WATER
DHWR	RECIRCULATION WATER
DCVA	DOUBLE-CHECK VALVE ASSEMBLY
DCBP	DOUBLE-CHECK BACKFLOW PREVENTOR
NFHB	NON FREEZE HOSE BIBB
S	SANITARY LINE
ST	STORM LINE
V	SANITARY VENT LINE
WS	WASTE STACK
WC	WATER CLOSET
LAV	LAVATORY
BT	BATHTUB
KS	KITCHEN SINK
BS	BAR SINK
SH	SHOWER
MS	MOP SINK
URI	URINAL
LB	LAUNDRY BOX
RWL	RAINWATER LEADER
FE	FIRE EXTINGUISHER
ER	EXISTING TO REMAIN
RF	RADIANT FLOOR PANEL

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1	30% REVIEW	18 03 23



Project title/Titre du projet

ROGERS PASS WASHROOM FACILITY AND DAY USE AREA

Approved by/Approuvé par

MB

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DL

Drawn by/Dessiné par

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Project Manager/Administrateur de Projets

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Ressources Architectural et de Directeur d'ingénierie

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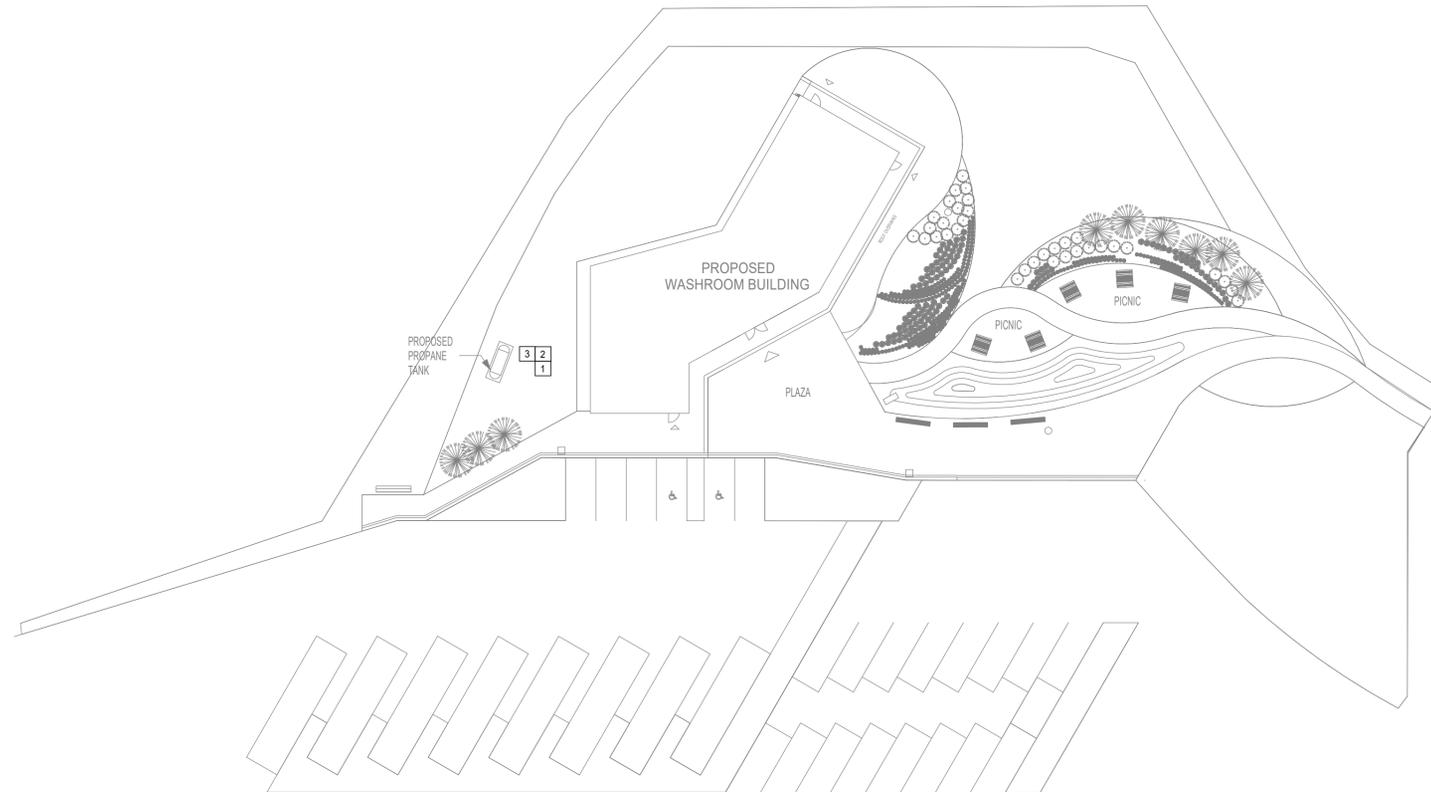
MECHANICAL LEGEND

Project No. / No. du projet	Sheet / Feuille	Revision no. / La Révision no.
CAI 752	M0	





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1 MECHANICAL SITE PLAN
M0S1 1 : 300

GENERAL NOTES

- BIDDING CONTRACTORS ARE TO VISIT SITE TO VERIFY EXISTING INFORMATION PRIOR TO SUBMITTING TENDER PRICE. IT IS THE CONTRACTORS RESPONSIBILITY TO BRING FORWARD ANY DISCREPANCIES PRIOR TO BID BEING SUBMITTED. ANY CHANGES BROUGHT FORWARD DUE TO EXISTING CONDITIONS POST TENDER SHALL BE AT CONTRACTORS COST.
- LOCATIONS OF EXISTING SERVICES ARE APPROXIMATE. VERIFY ON SITE.
- CONTRACTOR TO ENGAGE STRUCTURAL ENGINEER TO VERIFY ALL SEISMIC REQUIREMENTS FOR PIPE AND DUCT HANGING METHODS.
- WHERE DISCREPANCIES ARE FOUND, CONTACT ENGINEER IN WRITING PRIOR TO SUBMITTING PRICE.
- PLUMBING LINES ETC. ARE SHOWN DIAGRAMMATICALLY. FINAL LOCATIONS, ROUTING ETC. TO BE CO-ORDINATED ON SITE.
- PROVIDE TRAP SEALER FOR ALL FLOOR AND HUB DRAINS.
- EXTEND SANITARY VENT LINE FROM FIXTURES AS PER NATIONAL AND LOCAL PLUMBING CODES.

MECHANICAL SITE NOTES

- APPROXIMATE LOCATION OF 500 GALLON PROPANE GAS TANK. ENSURE 10FT CLEARANCE FROM COMBUSTIBLE MATERIAL, BUILDING AND PROPERTY LINE.
- PROVIDE 250mm CONCRETE PAD FOR PROPANE TANK.
- CONTRACTOR TO CONFIRM EXACT EQUIPMENT REQUIREMENT WITH TANK SUPPLIER BEFORE SUBMITTING BID.

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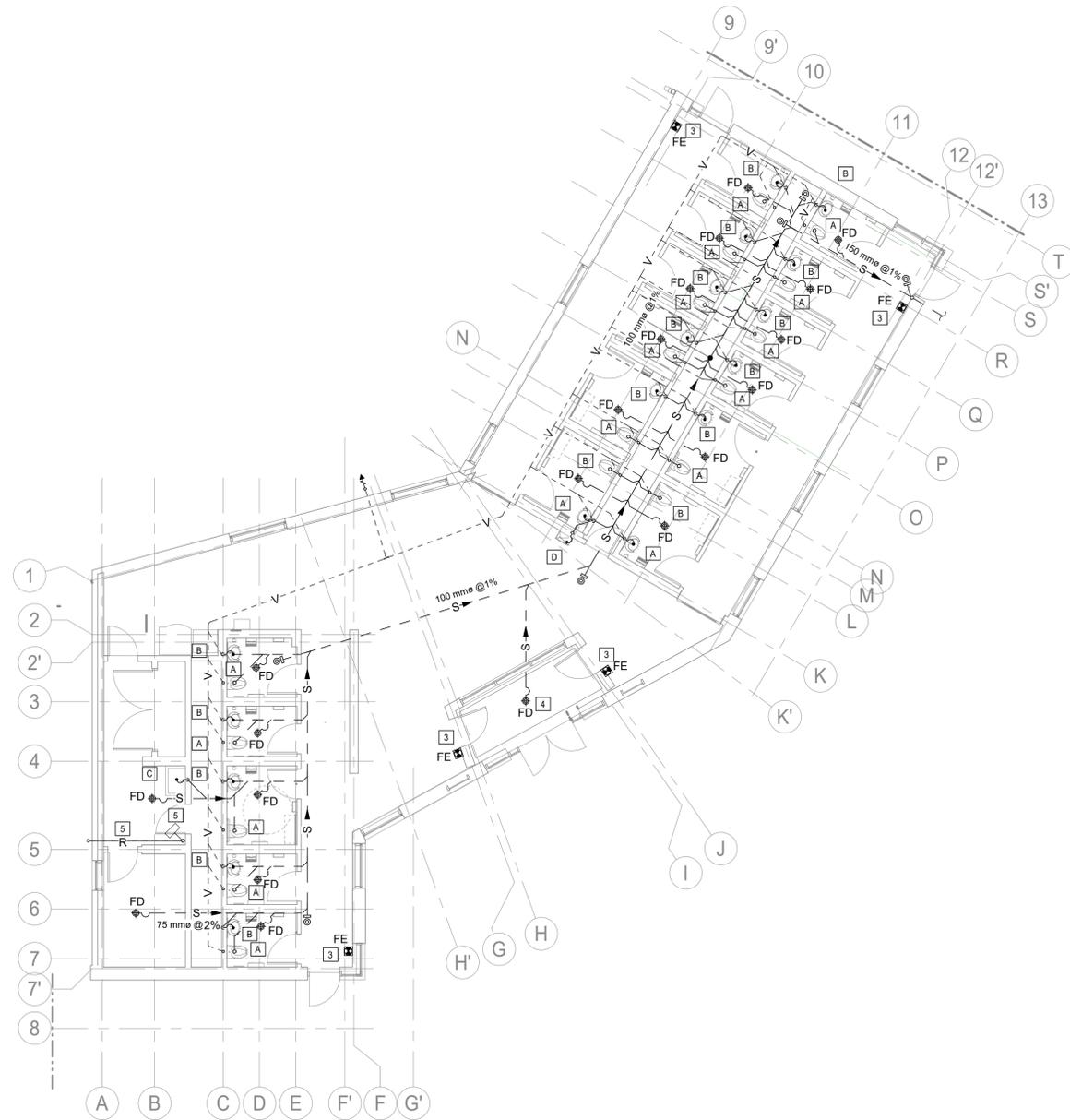
M0S1 - MECHANICAL SITE PLAN

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CAI 752	M0S1	





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01 FLOOR PLAN - DRAINAGE LAYOUT
M1 1:100

GENERAL NOTES

1. BIDDING CONTRACTORS ARE TO REVIEW ALL ARCHITECTURAL, MECHANICAL, ELECTRICAL, CIVIL AND STRUCTURAL DRAWINGS PRIOR TO SUBMITTING TENDER PRICE.
2. LOCATIONS OF EXISTING SERVICES ARE APPROXIMATE, VERIFY ON SITE
3. CONTRACTOR TO ENGAGE STRUCTURAL ENGINEER TO VERIFY ALL SEISMIC REQUIREMENTS FOR PIPE AND DUCT HANGING METHODS.
4. WHERE DISCREPANCIES ARE FOUND, CONTACT ENGINEER IN WRITING PRIOR TO SUBMITTING PRICE.
5. PLUMBING LINES ETC. ARE SHOWN DIAGRAMMATICALLY, FINAL LOCATIONS, ROUTING ETC. TO BE CO-ORDINATED ON SITE.
6. PROVIDE TRAP SEALER FOR ALL FLOOR AND HUB DRAINS.
7. EXTEND SANITARY VENT LINE FROM FIXTURES AS PER NATIONAL AND LOCAL PLUMBING CODES.
8. ALL FLOOR MOUNTED MECHANICAL EQUIPMENT TO BE MOUNTED ON 100mm HOUSE KEEPING PAD.
9. CONTRACTOR TO PROVIDE LAPTOP IN MECHANICAL ROOF TO FACILITATE COMMISSIONING/ MAINTENANCE.
10. CONTRACTOR TO ENSURE ALL MECHANICAL EQUIPMENT SHALL BE RATED TO PERFORM AT HIGH ELEVATION.

DRAINAGE NOTES

- 1 APPROXIMATE LOCATION OF 150ø SANITARY LINE @11.788 INVERT LEVEL. EXTEND NEW 150ø TO SPACE. CONFIRM INVERT WITH DSSP AND CIVIL DRAWINGS.
- 2 PROVIDE 50ø SANITARY VENT AT HIGH LEVEL AND EXTEND THROUGH SIDEWALL C/W WALL CAP.
- 3 PROVIDE FIRE EXTINGUISHER PER NFPA10.
- 4 TRAFFIC RATED METAL GRILL IN VESTIBULE BY ARCHITECT. COORDINATE WITH ARCHITECT.
- 5 PROVIDE 4"ø RADON EXHAUST PIPE UP THROUGH CONCRETE SLAB AND EXTEND THROUGH SIDEWALL. COORDINATE WITH ARCHITECT. REFER TO DETAIL.

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Revision / Révision	Description / Description	Date / Date
Client / client		



Project title/Titre du projet

ROGERS PASS WASHROOM FACILITY AND DAY USE AREA

Approved by/Approuvé par
MB
Designed by/Concept par
DL
Drawn by/Dessiné par
DL
Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'ingénierie

Client / client
Parks Canada

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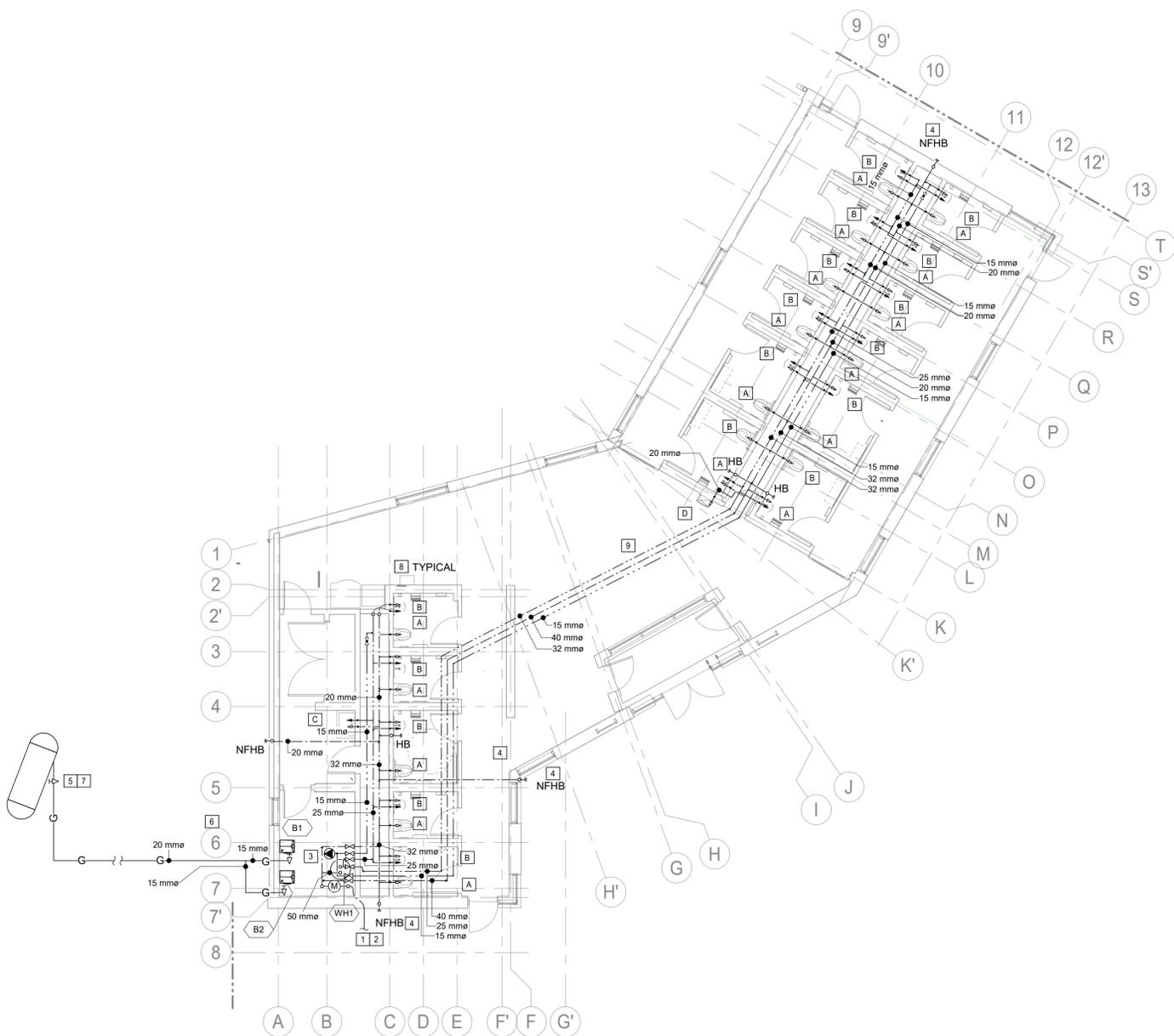
FLOOR PLAN - DRAINAGE LAYOUT

Project No. / No. du project CAI 752	Sheet / Feuille M1	Revision no. / La Révision no.
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GENERAL NOTES

- BIDDING CONTRACTORS ARE TO REVIEW ALL ARCHITECTURAL, MECHANICAL, ELECTRICAL, CIVIL AND STRUCTURAL DRAWINGS PRIOR TO SUBMITTING TENDER PRICE.
- LOCATIONS OF EXISTING SERVICES ARE APPROXIMATE, VERIFY ON SITE.
- CONTRACTOR TO ENGAGE STRUCTURAL ENGINEER TO VERIFY ALL SEISMIC REQUIREMENTS FOR PIPE AND DUCT HANGING METHODS.
- WHERE DISCREPANCIES ARE FOUND, CONTACT ENGINEER IN WRITING PRIOR TO SUBMITTING PRICE.
- PLUMBING LINES ETC. ARE SHOWN DIAGRAMMATICALLY, FINAL LOCATIONS, ROUTING ETC. TO BE CO-ORDINATED ON SITE.
- PROVIDE TRAP SEALER FOR ALL FLOOR AND HUB DRAINS.
- EXTEND SANITARY VENT LINE FROM FIXTURES AS PER NATIONAL AND LOCAL PLUMBING CODES.
- ALL FLOOR MOUNTED MECHANICAL EQUIPMENT TO BE MOUNTED ON 100mm HOUSE KEEPING PAD.
- CONTRACTOR TO PROVIDE LAPTOP IN MECHANICAL ROOF TO FACILITATE COMMISSIONING/ MAINTENANCE.
- CONTRACTOR TO ENSURE ALL MECHANICAL EQUIPMENT SHALL BE RATED TO PERFORM AT HIGH ELEVATION.

PLUMBING NOTES

- APPROXIMATE LOCATION OF INCOMING 100mmø DCW LINE. CONTRACTOR TO CONFIRM EXACT LOCATION ON SITE.
- EXTEND 100mmø JOINLESS PEX UNDER SLAB TO WATER METER IN MECHANICAL ROOM.
- EXTEND 40mmø CW, 25mmø HW AND 15mmø RECIRC LINE TO SOUTH WING WASHROOM AND EXTEND 40mmø CW, 32mmø HW AND 15mmø RECIRC LINE TO NORTH WING WASHROOM.
- EXTEND 20mmø CW TO NON-FREEZE HOSE BIBB. NFHB TO BE 914mm A.F.F. COORDINATE WITH ARCHITECT. NON-FREEZE HOSE BIBB TO BE JAY-R SMITH 55090QT OR EQUIVALENT.
- APPROXIMATE LOCATION OF 500 GALLON PROPANE GAS TANK C/W REGULATOR TO BE SUPPLIED AND INSTALLED BY CONTRACTOR AS PART OF THIS CONTRACT. ENSURE TANK HAS 10FT CLEARANCE FROM BUILDING AND PROPERTY LINE. CONTRACTOR TO CONFIRM EXACT REQUIRED EQUIPMENT WITH THE SUPPLIER BEFORE SUBMITTING BID.
- EXTEND 20mmø GAS LINE FROM PROPANE TANK TO BOILERS C/W GAS COCK. CONFIRM PIPE SIZE BASED ON THE EXACT LENGHT OF THE GAS PIPE ON SITE. GAS PIPE FROM PROPANE TANK TO THE BUILDING TO BE BURIED UNDERGROUND. CONFIRM UNDERGROUND DEPTH OF THE PIPE AND DETAIL WITH SUPPLIER.
- PROPANE TANK TO BE LOCATED 38FT (11582mm) FROM THE BUILDING. CONTRACTOR TO COORDINATE WITH DEPARTMENTAL REPRESENTATIVE FOR EXACT LOCATION OF THE TANK ON SITE.
- PROVIDE ZURN MODEL 1260XL, WADE 4481 OR APPROVED EQUIVALENT WATER HAMMER ARRESTOR AT CW AND HW BRANCHES SERVING THE FIXTURES.
- COORDINATE WITH PCA FOR PIPE INSULATION COLOR WHERE THE PIPE IS EXPOSED TO PUBLIC AREA.

01 FLOOR PLAN - PLUMBING LAYOUT
M2 1 : 100

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Client / client		



Project title/Titre du projet

ROGERS PASS WASHROOM FACILITY AND DAY USE AREA

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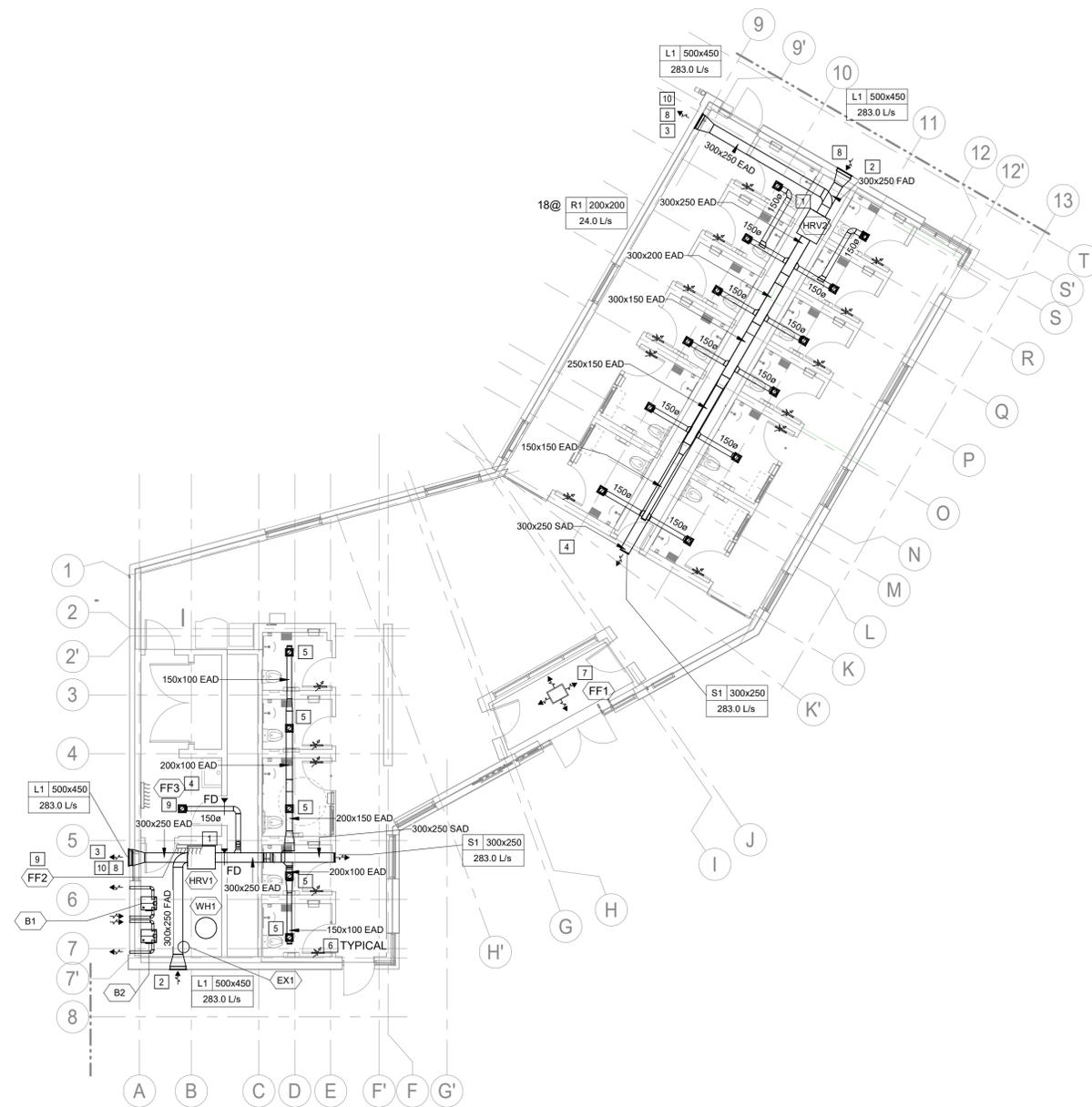
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FLOOR PLAN - PLUMBING LAYOUT

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01 FLOOR PLAN - H.V.A.C. LAYOUT
M3 1:100

GENERAL NOTES

- BIDDING CONTRACTORS ARE TO REVIEW ALL ARCHITECTURAL, MECHANICAL, ELECTRICAL, CIVIL AND STRUCTURAL DRAWINGS PRIOR TO SUBMITTING TENDER PRICE.
- LOCATIONS OF EXISTING SERVICES ARE APPROXIMATE, VERIFY ON SITE.
- CONTRACTOR TO ENGAGE STRUCTURAL ENGINEER TO VERIFY ALL SEISMIC REQUIREMENTS FOR PIPE AND DUCT HANGING METHODS.
- ALL BRANCH DUCTWORK TO HAVE BALANCING DAMPERS.
- RUN ALL DUCTWORK AT HIGHEST LEVEL POSSIBLE.
- CONTRACTOR TO PROVIDE LAPTOP IN MECHANICAL ROOF TO FACILITATE COMMISSIONING/ MAINTENANCE.
- CONTRACTOR TO ENSURE ALL MECHANICAL EQUIPMENT SHALL BE RATED TO PERFORM AT HIGH ELEVATION.

H.V.A.C. NOTES

- LOCATION OF NEW HRV. PROVIDE 20KW DUCT HEATER IN HRV S/A DUCT, SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE DUCT MOUNTED THERMOSTAT. DUCT HEATER TO BE SLIP-IN, DUCT MOUNTED AND INSTALLED AS PER MANUFACTURER'S INSTRUCTIONS. SET THERMOSTAT TO 22°C.
- EXTEND 300x250 F/A DUCT TO HRV. ENSURE 3000mm CLEARANCE FROM ALL AIR EXHAUSTS. COORDINATE WITH ARCHITECT AND STRUCTURAL FOR LOCATION OF LOUVERS.
- EXTEND 300x250 E/A DUCT FROM HRV. ENSURE 3000mm CLEARANCE FROM ALL AIR INLETS. COORDINATE WITH ARCHITECT AND STRUCTURAL FOR LOCATION OF LOUVERS.
- EXTEND 300x250 S/A DUCT FROM HRV.
- EXTEND 150mmø E/A DUCT FROM WASHROOM EXHAUST GRILL AND CONNECT TO 300x250 E/A DUCT.
- PROVIDE 250mmx100mm DOOR GRILLES AT LOW LEVEL.
- PROVIDE 4KW CEILING SUSPENDED ELECTRIC FORCE FLOW HEATER SUPPLIED AND INSTALLED BY ELECTRICAL.
- COORDIANTE FOR THE HEIGHT OF THE LOUVER WITH ARCHITECT.
- PROVIDE 4KW WALL MOUNTED ELECTRIC FORCE FLOW HEATER SUPPLIED AND INSTALLED BY ELECTRICAL.
- PROVIDE SOLID SOFIT UP 1200mm ON EACH SIDE OF EXHAUST GRILLE. COORDINATE WITH ARCHITECT.

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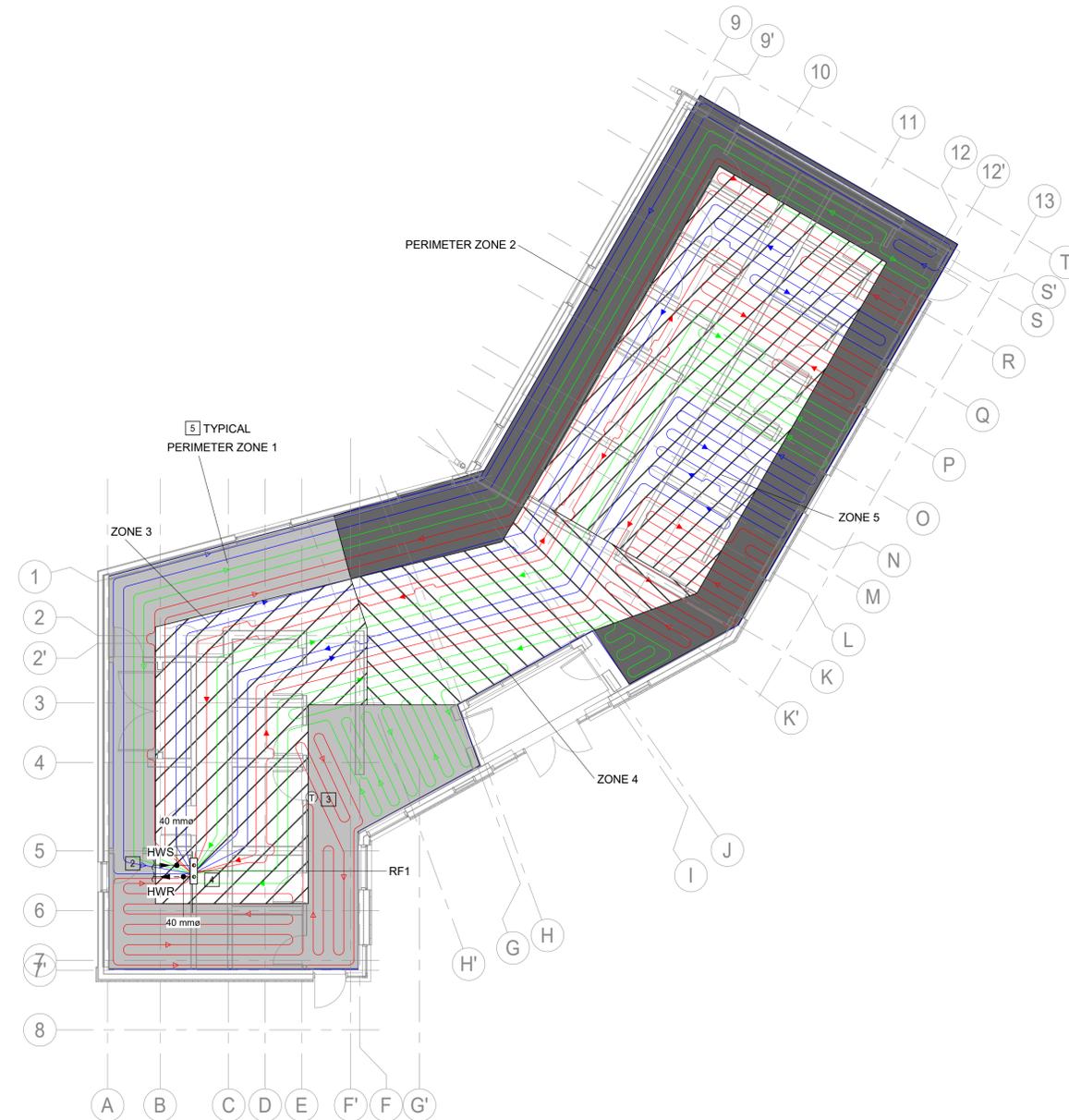
FLOOR PLAN - H.V.A.C. LAYOUT

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01 FLOOR PLAN - HYDRONIC LAYOUT
M4 1:100

GENERAL NOTES

- BIDDING CONTRACTORS ARE TO REVIEW ALL ARCHITECTURAL, MECHANICAL, ELECTRICAL, CIVIL AND STRUCTURAL DRAWINGS PRIOR TO SUBMITTING TENDER PRICE.
- LOCATIONS OF EXISTING SERVICES ARE APPROXIMATE, VERIFY ON SITE.
- CONTRACTOR TO ENGAGE STRUCTURAL ENGINEER TO VERIFY ALL SEISMIC REQUIREMENTS FOR PIPE AND DUCT HANGING METHODS.
- WHERE DISCREPANCIES ARE FOUND, CONTACT ENGINEER IN WRITING PRIOR TO SUBMITTING PRICE.
- PLUMBING LINES ETC. ARE SHOWN DIAGRAMMATICALLY, FINAL LOCATIONS, ROUTING ETC. TO BE CO-ORDINATED ON SITE.
- CONTRACTOR TO PROVIDE LAPTOP IN MECHANICAL ROOF TO FACILITATE COMMISSIONING/ MAINTENANCE.
- CONTRACTOR TO ENSURE ALL MECHANICAL EQUIPMENT SHALL BE RATED TO PERFORM AT HIGH ELEVATION.

HYDRONIC NOTES

- IN-FLOOR PIPING LAYOUT IS SCHEMATIC ONLY. CONTRACTOR TO SUBMIT FINAL LAYOUT DRAWING FOR APPROVAL. COORDINATE AROUND COLUMN LOCATIONS ON SITE.
- 40mm HWS AND HWR LINES TO AND FROM THE HEATING MANIFOLD.
- THERMOSTAT TO BE MOUNTED 1200mm A.F.F C/W LOCKBOX.
- CONNECT HWS AND HWR TO IN-FLOOR HEATING MANIFOLD AS PER MANUFACTURER'S INSTRUCTIONS. REFER TO IN-FLOOR HEATING SCHEDULES AND HEATING MANIFOLD DETAIL.
- CONTRACTOR TO ENSURE IN-FLOOR PIPING LAYOUT SHALL BE ZONED AS INDICATED WITH TWO PERIMETER ZONES AND THREE INTERIOR ZONES.

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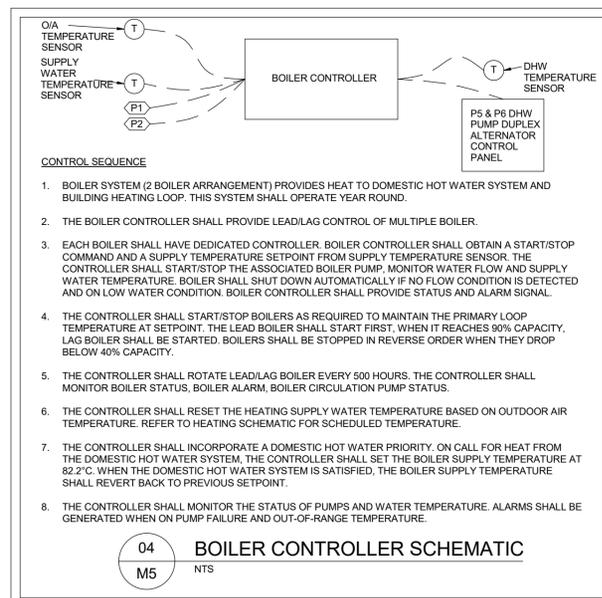
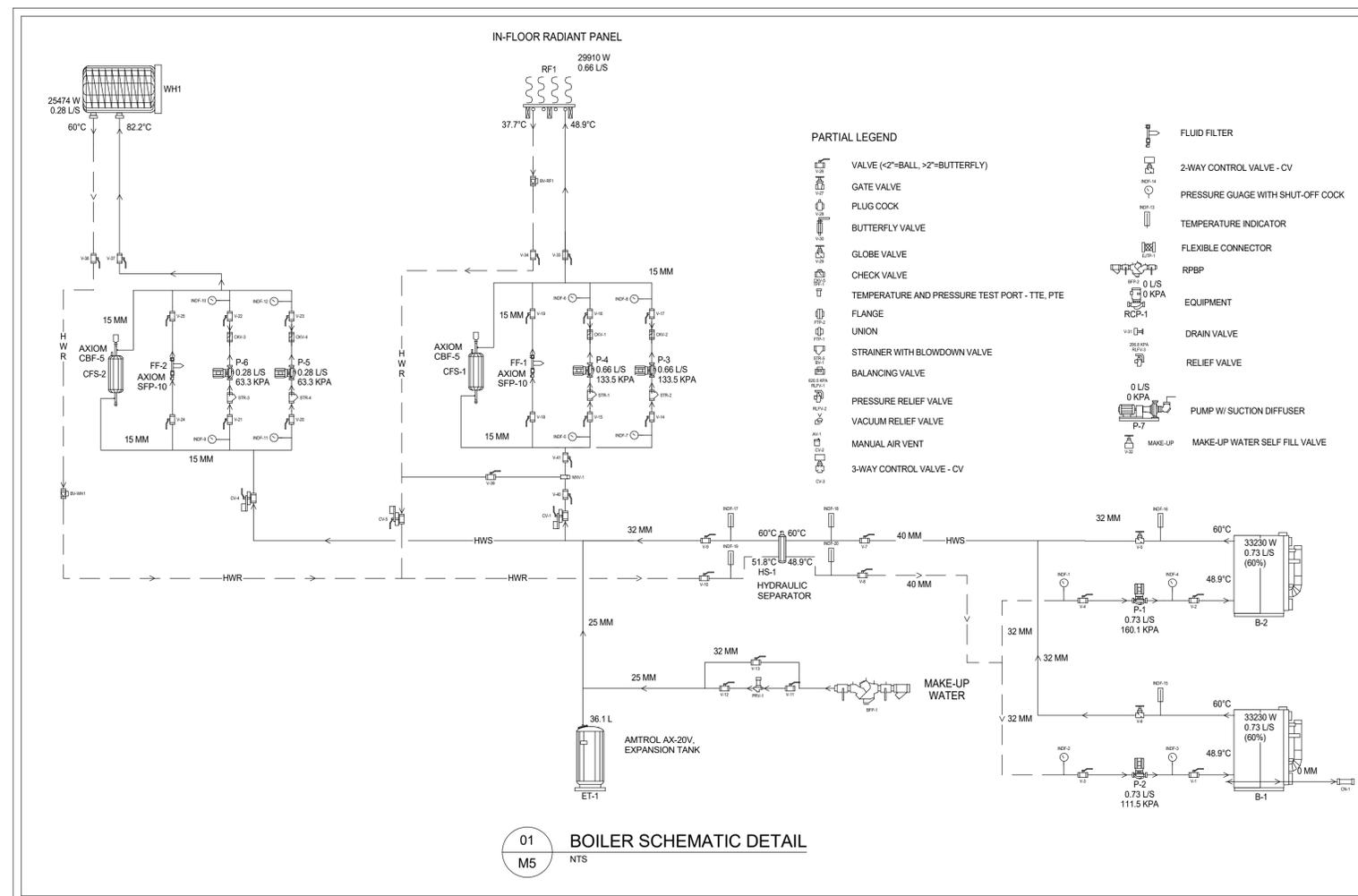
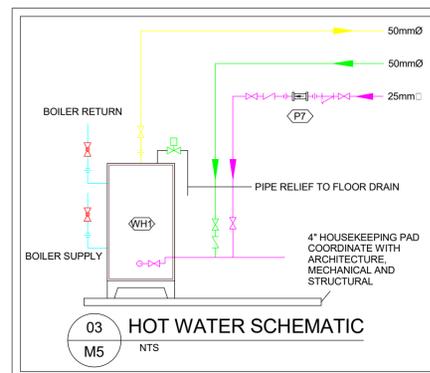
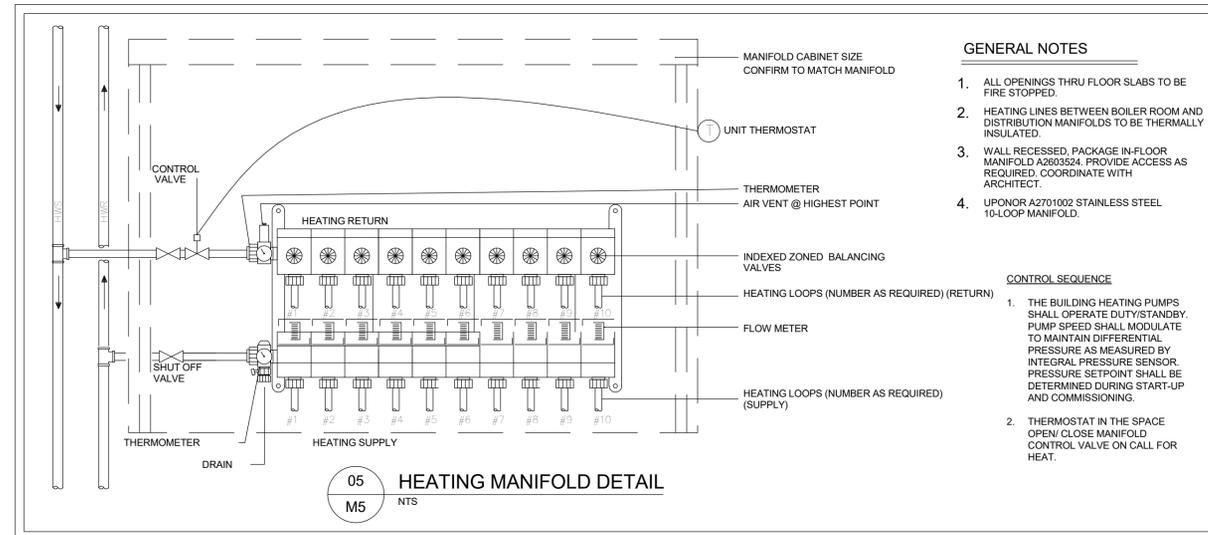
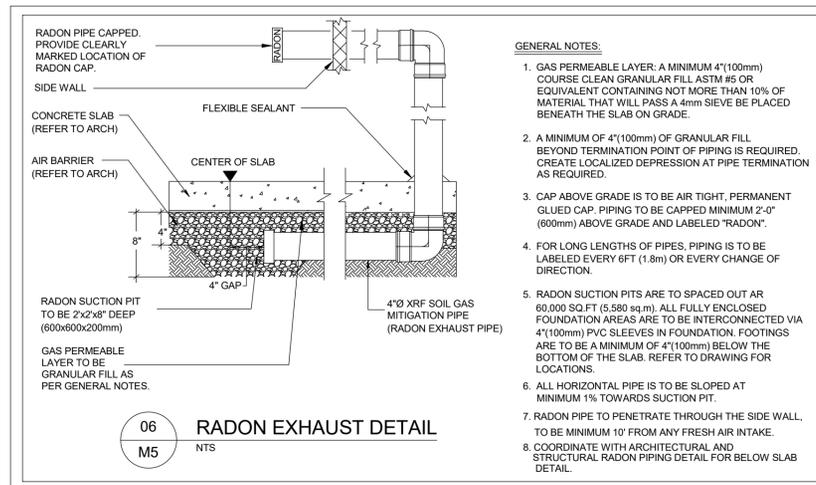
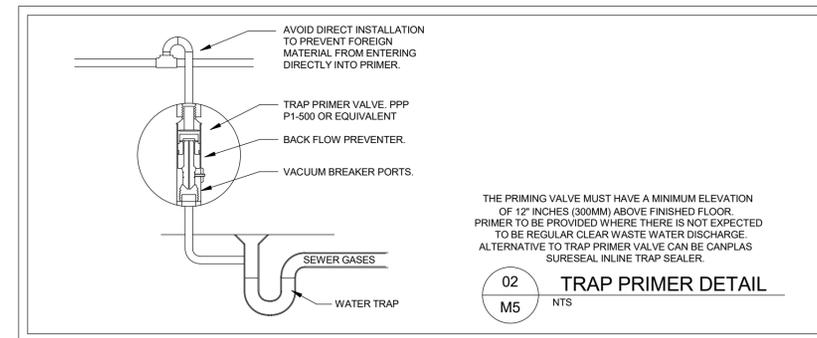
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FLOOR PLAN - HYDRONIC LAYOUT

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4	99% REVIEW	18-10-03
3	90% REVIEW	18 08 17



ROGERS PASS WASHROOM FACILITY AND DAY USE AREA

Approved by/Approve par MB
Designed by/Concept par DL
Drawn by/Dessine par DL
Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie
Parks Canada
Drawing title / Titre du dessin

MECHANICAL DETAILS

Project No. / No. du project	Sheet / Feuille	Revision no. / La Révision no.
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MANIFOLD IN-FLOOR HEATING SCHEDULE

AREA	273 m ²
TOTAL HEATING CAPACITY	107.7 MJ/Hr
TOTAL WATER FLOW	0.67 L/S
OUTPUT	89.31 MJ/Hr
NUMBER OF LOOPS	10
AVERAGE LENGTH OF LOOP	90.09 m
PIPE SIZE/LOOP	15 mm
AVERAGE WATER FLOW PER LOOP	0.06 L/S
PRESSURE DROP	21.82 kPa
PIPE SPACING	300 mm O.C.

GAS EQUIPMENT SCHEDULE

EXTEND 2" GAS LINE FROM PROPANE TANK TO BOILERS. SIZING BASED ON 100FT LENGTH TO FURTHEST EQUIPMENT.

GAS LOAD SIZE: 1,000 CFH
GAS EQUIPMENT LOAD: 860 CFH

BOILER B1	110 CFH
BOILER B2	110 CFH
TOTAL LOAD	220 CFH 220,000 BTUH

EXPANSION TANK SCHEDULE

TAG	MANUFACTURER	MODEL	VOLUME	REMARKS
EX1	AMTROL, TACO OR APPROVED EQUIVALENT	AX-20V, CBX42-125 OR APPROVED EQUIVALENT	41.3 L	861 KPA OPERATING PRESSURE

HOT WATER HEATER UNIT SCHEDULE

TAG	LOCATION	MANUFACTURER	MODEL	CAPACITY	BTU/HR INPUT	REMARKS
WH1	MECH ROOM	LOCHINVAR, TRIANGLE TUBE OR APPROVED EQUIVALENT	SIT065, SMART 80 OR APPROVED EQUIVALENT	253 LT	INDIRECT	INSTALL ON HOUSE KEEPING PADS. SEE BOILER SCHEMATIC FOR PIPING. ENSURE EQUIPMENT IS RATED FOR HIGH ALTITUDE OPERATION.

BOILER UNIT SCHEDULE

TAG	LOCATION	MANUFACTURER	MODEL	GAS (KJ/Hr)	HEATING CAPACITY (KJ/Hr)	ELECTRICAL (V/PH/Hz)	REMARKS
B1	MECH ROOM	LOCHINVAR, VISSMAN OR APPROVED EQUIVALENT	WHL111, B2HB 35-125 OR APPROVED EQUIVALENT	116056.143	107615.69	120/1/60	WALL MOUNTED C/W LP GAS KIT. PROVIDE LOW WATER CUT-OFF SWITCH AND FLOW SWITCH. COORDINATE WITH STRUCTURAL FOR HANGING BOILERS TO THE WALL. ENSURE EQUIPMENT IS RATED FOR HIGH ALTITUDE OPERATION. HRV TO RUN CONTINUOUSLY.
B2	MECH ROOM	LOCHINVAR, VISSMAN OR APPROVED EQUIVALENT	WHL111, B2HB 35-125 OR APPROVED EQUIVALENT	116056.143	107615.69	120/1/60	WALL MOUNTED C/W LP GAS KIT. PROVIDE LOW WATER CUT-OFF SWITCH AND FLOW SWITCH. COORDINATE WITH STRUCTURAL FOR HANGING BOILERS TO THE WALL. ENSURE EQUIPMENT IS RATED FOR HIGH ALTITUDE OPERATION. HRV TO RUN CONTINUOUSLY.

HRV SCHEDULE

TAG	LOCATION	MANUFACTURER	MODEL	SUPPLY AIR FLOW (L/S)	SUPPLY E.S.P (Pa)	ELECTRICAL (V/PH/Hz)	REMARKS
HRV1	CEILING SPACE	VANEE, ALDES OR APPROVED EQUIVALENT	6LC, H650-F1EC OR APPROVED EQUIVALENT	283.0 L/s	124	115/1/60, 5.7A, 640W	PROVIDE 7 DAY PROGRAMMABLE THERMOSTAT. MOUNT HORIZONTAL IN CEILING SPACE. PROVIDE ALUMINIUM CORE C/W AUTOMATIC RECIRC DEFROST CYCLE. DRAIN CONDENSATE TO NEAREST DRAIN. PROVIDE ACCESS AS PER MANUFACTURER'S RECOMMENDATION. PROVIDE HRV CONTROLLER.
HRV2	CEILING SPACE	VANEE, ALDES OR APPROVED EQUIVALENT	6LC, H650-F1EC OR APPROVED EQUIVALENT	283.0 L/s	124	115/1/60, 5.7A, 640W	PROVIDE 7 DAY PROGRAMMABLE THERMOSTAT. MOUNT HORIZONTAL IN CEILING SPACE. PROVIDE ALUMINIUM CORE C/W AUTOMATIC RECIRC DEFROST CYCLE. DRAIN CONDENSATE TO NEAREST DRAIN. PROVIDE ACCESS AS PER MANUFACTURER'S RECOMMENDATION. PROVIDE HRV CONTROLLER.

PUMP SCHEDULE

TAG	SERVICE	MANUFACTURER	MODEL	FLOW (L/S)	HEAD (kPa)	MOTOR POWER	ELECTRICAL (V/PH/Hz)	REMARKS
P1	BOILER INJECTION PUMP	GRUNDFOS, TACO OR APPROVED EQUIVALENT	UPS-32-40 F, 2400-40 OR APPROVED EQUIVALENT	1.021	29.98	102W	115/1/60	3 SPEED, INLINE, WET ROTOR CIRCULATOR. CONTROLLED BY BOILER CONTROLLER. SET PUMP ON MEDIUM SPEED.
P2	BOILER INJECTION PUMP	GRUNDFOS, TACO OR APPROVED EQUIVALENT	UPS-32-40 F, 2400-40 OR APPROVED EQUIVALENT	1.021	29.98	102W	115/1/60	3 SPEED, INLINE, WET ROTOR CIRCULATOR. CONTROLLED BY BOILER CONTROLLER. SET PUMP ON MEDIUM SPEED.
P3	IN-FLOOR HEATING PUMP	GRUNDFOS, TACO OR APPROVED EQUIVALENT	UPS-32-80 F, 2400-10 OR APPROVED EQUIVALENT	0.67	45	160W	115/1/60	MAINTAIN CONSTANT PRESSURE. SET PRESSURE SETPOINT TO 15FT OF HEAD FOR COMMISSIONING.
P4	IN-FLOOR HEATING STANDBY PUMP	GRUNDFOS, TACO OR APPROVED EQUIVALENT	UPS-32-80 F, 2400-10 OR APPROVED EQUIVALENT	0.67	45	160W	115/1/60	MAINTAIN CONSTANT PRESSURE. SET PRESSURE SETPOINT TO 15FT OF HEAD FOR COMMISSIONING.
P5	DOMESTIC WATER HEATER INJECTION PUMP	GRUNDFOS, TACO OR APPROVED EQUIVALENT	UPS-32-80 F, 2400-10 OR APPROVED EQUIVALENT	0.30	45	152W	115/1/60	INLINE WET ROTOR CIRCULATOR. PROVIDE TEKMAR 150 CONTROLLER TO MAINTAIN DISCHARGE TEMPERATURE SETPOINT ON WATER HEATER. SET AT MEDIUM SPEED.
P6	DOMESTIC WATER HEATER STANDBY PUMP	GRUNDFOS, TACO OR APPROVED EQUIVALENT	UPS-32-80 F, 2400-10 OR APPROVED EQUIVALENT	0.30	45	152W	115/1/60	INLINE WET ROTOR CIRCULATOR. PROVIDE TEKMAR 150 CONTROLLER TO MAINTAIN DISCHARGE TEMPERATURE SETPOINT ON WATER HEATER. SET AT MEDIUM SPEED.
P7	DOMESTIC WATER RECIRC PUMP	GRUNDFOS, TACO OR APPROVED EQUIVALENT	UP 15-18B5, 006-BC4 OR APPROVED EQUIVALENT	0.18	29.98	85W	115/1/60	INLINE CIRCULATOR C/W TIMER AND AQUASTAT. SET AT MEDIUM SPEED

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE	MANUFACTURER	CAT. #	MODEL	ACCESSORIES	TRIM/SUPPLIES	TRAP	DRAIN	VENT	CW	HW
A	WALL HUNG WATER CLOSET (ADA)	AMERICAN STANDARD, TOTO OR APPROVED...	2856.128	AFWALL MILLENIUM FLOWISE, 381mm HEIGHT, 1.28 Gpl, ELONGATED SEAT, FLUSHOMETER MANUAL FLUSH VALVE, ADA COMPLIANT, MODEL 3461.001	SOLID PLASTIC, OPEN FRONT, WHITE SEAT, BOLTS, NUTS AND CAPS, FLEXIBLE HOSE C/W STOPS ON SUPPLIES	MANUAL FLUSH VALVE AMERICAN STANDARD MODEL 6047.121	INTEGRAL	75	38	25	-
B	WALL HUNG LAVATORY	AMERICAN STANDARD, TOTO OR APPROVED EQUIVALENT	0955.000	MURRO UNIVERSAL DESIGN WALL-HUNG LAVATORY, HOLES ON 102mm CENTERS, ADA COMPLIANT	KNEE GUARD 0059 020, STOPS ON ALL SUPPLIES	TOTO TEL105 SERIES C/W ECOPOWER, CONTROL MODULE AND MIXING VALVE. ENSURE CONTROL MODULE IS INSTALLED RECESSED.	P-TRAP	40	32	15	15
C	MOP SINK	FIAT, KINDRED OR APPROVED EQUIVALENT	MSB-2424	MOLDED-STONE MOP SERVICE BASSIN	STAINLESS STEEL DRAIN, STAINLESS STEEL BUMPER GUARDS	CRANE 830AA WALL MOUNTED C/W PAIL HOOK, VACUUM BRAKER, HOSE CONNECTION, 1200mm HOSE	P-TRAP	75	40	15	15
D	WATER FOUNTAIN	ELKAY, HAWES OR APPROVED EQUIVALENT	EZS8WSSK	115/1/60, 5A FLA, 370W, c/w bottle filling station, Stops on supplies	STOPS ON SUPPLIES	N/A	P-TRAP	40	32	20	20

CONFIRM ALL PLUMBING FIXTURES WITH ARCHITECT, OWNER AND INTERIOR DESIGNER.

GRILLE/ DIFFUSER SCHEDULE

GRILLE/DIFFUSER TYPE	NECK SIZE OR GRILLE SIZE	AIR FLOW (L/S)
TYPE S1	- EH PRICE MODEL 520/F1A/B12 (FINISH: ALUMINUM)	
TYPE R1	- EH PRICE MODEL 510D/F1A/B12 (FINISH: WHITE)	
TYPE L1	- WESTVENT SF-430W, STEEL, 100mm WEATHER PROOF BLADE (FINISH: BY ARCHITECT)	

PROVIDE DAMPERS FOR EXHAUST GRILLES
PROVIDE ALL DIFFUSERS AND GRILLES WITH INSECT SCREEN THAT CAN BE EASILY CLEANED AND REPLACED.
PROVIDE MOUNTING KITS FOR T-BAR AND DRYWALL WHERE REQUIRED
CONTRACTOR TO PROVIDE ACCESS PANELS WHERE BALANCING DAMPERS ARE INACCESSIBLE. CONTRACTOR TO CONFIRM LOCATION OF ACCESS PANEL WITH GC PRIOR TO INSTALLATION.
CONFIRM WITH ARCHITECT.

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ROGERS PASS WASHROOM FACILITY AND DAY USE AREA

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MB

Designed by/Conçu par

DL

Drawn by/Dessiné par

DL

Project Manager/Administrateur de Projets

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ROGERS PASS WASHROOM FACILITY AND DAY USE AREA

TENDER
18/12/13



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Sheet List	
Sheet Number	Sheet Name
E0	ELECTRICAL LEGEND
E0S1	ELECTRICAL SITE PLAN
E1	FLOOR PLAN - LIGHTING
E2	FLOOR PLAN - POWER & AUXILIARY
E3	ELECTRICAL SCHEDULES
E4	ELECTRICAL DETAILS

SYMBOL LEGEND		
SYMBOL	DESCRIPTION	MOUNTING
LIGHTING LEGEND		
	RECESSED DOWNLIGHT LUMINAIRE, TYPE XX	SEE SCHEDULE
	PENDANT LUMINAIRE, TYPE XX	SEE SCHEDULE
	WALL SCONCE LUMINAIRE, TYPE XX	SEE SCHEDULE
	SURFACE MOUNTED STRIP LUMINAIRE	SEE SCHEDULE
	EXTERIOR POLE LUMINAIRE (SINGLE HEAD), TYPE XX	SEE SCHEDULE
	EXTERIOR POLE LUMINAIRE (DOUBLE HEAD), TYPE XX	SEE SCHEDULE
	WALL MOUNTED EXIT LIGHT	SEE SCHEDULE
	CEILING MOUNTED EXIT LIGHT	SEE SCHEDULE
	EXIT LIGHT C/W BATTERY PACK & REMOTE HEADS	SEE SCHEDULE
	WALL MOUNTED EMERGENCY DOUBLE REMOTE HEADS	SEE SCHEDULE
	CEILING MOUNTED EMERGENCY DOUBLE REMOTE HEADS	SEE SCHEDULE
	WALL MOUNTED BATTERY PACK C/W REMOTE HEADS	SEE SCHEDULE
	SINGLE POLE SWITCH	48in/1220mm
	3-WAY SWITCH	48in/1220mm
	SINGLE POLE SWITCH 'a' - SEE CIRCUIT FOR CONTROL	48in/1220mm
	1500W DIMMER SWITCH	48in/1220mm
	MASTER SWITCH - MULTIPLE SINGLE POLE SWITCHES	48in/1220mm
	OCCUPANCY SENSOR - SEE LUMINAIRE SCHEDULE	CEILING
	OCCUPANCY SENSOR - SEE LUMINAIRE SCHEDULE	WALL MOUNTED SEE SCHEDULE
	DAYLIGHT SENSOR	CEILING
	WALL MOUNTED PHOTO CELL	SEE SCHEDULE
POWER LEGEND		
	DUPLEX RECEPTACLE - 120V/15A (5-15R)	12in/305mm OR AS NOTED
	FOURPLEX RECEPTACLE - 120V/15A (5-15R)	12in/305mm OR AS NOTED
	FOURPLEX RECEPTACLE - 120V/20A (5-20R)	12in/305mm OR AS NOTED
	GFCI DUPLEX RECEPTACLE - 120V/15A (5-15RA)	12in/305mm OR AS NOTED
	DUPLEX RECEPTACLE - 120V/20A (5-20R)	12in/305mm OR AS NOTED
	CEILING MOUNTED DUPLEX RECEPTACLE	CEILING
	GFCI DUPLEX RECEPTACLE - 120V/20A (5-20RA)	12in/305mm OR AS NOTED
	GFCI FOURPLEX RECEPTACLE - 120V/20A (5-15RA)	12in/305mm OR AS NOTED
	GFCI FOURPLEX RECEPTACLE - 120V/20A (5-20RA)	12in/305mm OR AS NOTED
	GFCI FOURPLEX RECEPTACLE - SWITCHED	12in/305mm OR AS NOTED
	USB DUPLEX RECEPTACLE - 120V/15A	12in/305mm OR AS NOTED
	USB DUPLEX RECEPTACLE - 120V/20A	12in/305mm OR AS NOTED
	USB FOURPLEX RECEPTACLE - 120V/15A	12in/305mm OR AS NOTED
	USB FOURPLEX RECEPTACLE - 120V/20A	12in/305mm OR AS NOTED
	DUPLEX RECEPTACLE - SWITCHED	12in/305mm OR AS NOTED
	PARKING LOT DUPLEX RECEPTACLE IN POST	SEE DETAIL
	PARKING LOT SINGLE RECEPTACLE IN POST	SEE DETAIL
	ISOLATED GROUND RECEPTACLE	12in/305mm OR AS NOTED
	DATA OUTLET (2PORT WITH 2 DATA LINE)	12in/305mm OR AS NOTED
	DATA OUTLET (4PORT WITH 4 DATA LINE)- NUMBER(4) INDICATES NUMBER OF PORTS(4) AND NUMBER OF DATA LINE(4)	12in/305mm OR AS NOTED
	VOICE AND DATA COMM. OUTLET (2PORT WITH 2 DATA LINE)	12in/305mm OR AS NOTED
	2 VOICE AND 2 DATA COMM. OUTLET (4PORT WITH 4 DATA LINE)	12in/305mm OR AS NOTED
POWER LEGEND		
	TELEPHONE OUTLET (2 PORT WITH 2 DATA LINE)	12in/305mm OR AS NOTED
	TELEVISION OUTLET (HDMI AND COAX)	12in/305mm OR AS NOTED
	VACUUM OUTLET	
	SECURITY CAMERA	SEE DRAWING
	SPECIAL RECEPTACLE	12in/305mm OR AS NOTED
	HARDWIRED CONNECTION	12in/305mm OR AS NOTED
	DISCONNECT SWITCH	60in/1525mm OR AS NOTED
	JUNCTION BOX	
	MOTOR	
	SPEAKER	CEILING
	CEILING FAN	
	RADIANT HEATER	

	BASEBOARD HEATER	
	FORCE FLOW HEATER	
	ELECTRICAL PANEL - SEE PANEL SCHEDULE	
	TELEPHONE TERMINAL BOARD	
	TRANSFORMER	
FIRE ALARM LEGEND		
	FIRE ALARM CONTROL PANEL	
	FIRE ALARM CONTROL PANEL	
	FIRE ALARM SMOKE DETECTOR	CEILING
	FIRE ALARM HEAT DETECTOR	CEILING
	FIRE ALARM MANUAL PULL STATION	54in/1332mm
	FIRE ALARM COMBINATION HORN-STROBE	84in/2134mm
	FIRE ALARM STROBE	84in/2134mm
	FIRE ALARM HORN	84in/2134mm
	FIRE ALARM SPEAKER	84in/2134mm
	FIRE ALARM COMBINATION SPEAKER STROBE	84in/2134mm
	FIRE ALARM SPRINKLER TAMPER SWITCH	
	FIRE ALARM SPRINKLER FLOW SWITCH	
	FIRE ALARM COMBINATION BELL-STROBE	84in/2134mm
	MINI SUITE HORN C/W HORN SILENCE	84in/2134mm
	SMOKE ALARM C/W INTEGRAL CO DETECTOR	84in/2134mm
	WEATHERPROOF FIRE ALARM HORN-STROBE	
	FIRE ALARM ISOLATION MODULE	
TAGS/OTHER		
	LUMINAIRE TAG - SEE LUMINAIRE SCHEDULE	
	ABOVE FINISHED FLOOR	
	ABOVE COUNTER	
	NIGHT LIGHT - CIRCUIT TO NIGHT LIGHT BREAKER	
	EXISTING TO REMAIN	
	REMOVE	
	RELOCATE	
	PANEL 'A', CIRCUIT XX	
	CIRCLE DENOTES CEILING MOUNTED DEVICE	
	SQUARE DENOTES FLOOR MOUNTED DEVICE	
	EQUIPMENT TAG - SEE SCHEDULES	

MOUNTING IS INDICATED FROM FINISHED FLOOR TO CENTER OF DEVICE. MOUNTING HEIGHTS INDICATED ON DRAWINGS OR SPECIFICATIONS HAVE PRECEDENCE OVER THIS LEGEND. ANY UNLISTED MOUNTING HEIGHTS TO BE CONFIRMED PRIOR TO INSTALLATION.

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ROGERS PASS WASHROOM FACILITY AND DAY USE AREA

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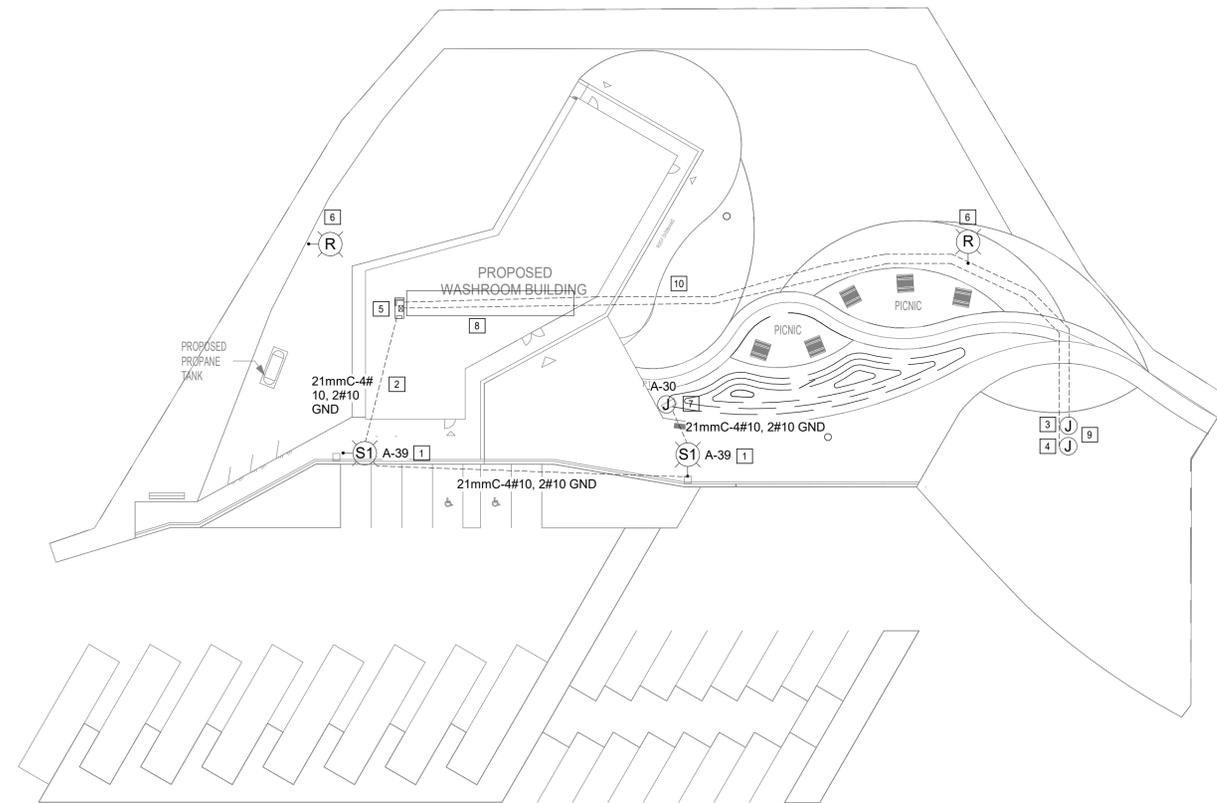
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ELECTRICAL LEGEND

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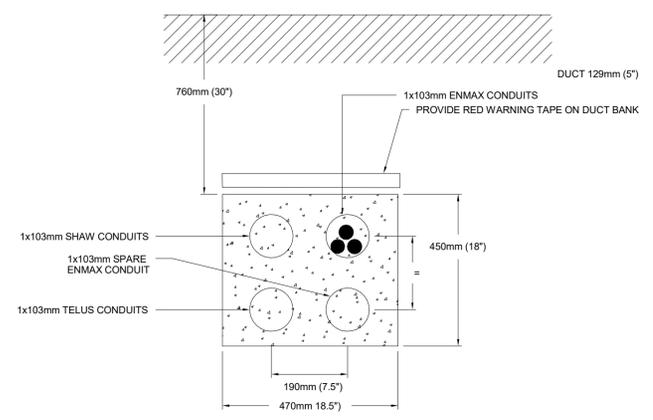
1 ELECTRICAL SITE PLAN
E0S1 1 : 300

GENERAL NOTES

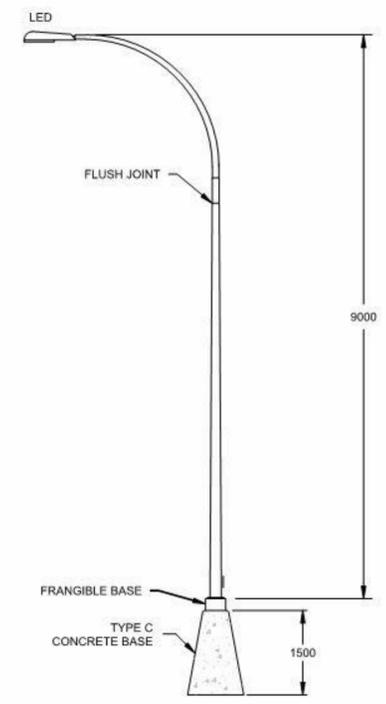
- ALL DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. WHERE DISCREPANCIES ARE FOUND, THEY SHOULD BE BROUGHT FORWARD PRIOR TO TENDER CLOSE.
- CONDUCTOR SIZES INDICATED IS MINIMUM REQUIRED. INCREASE CONDUCTOR SIZE (AND CONDUIT SIZE WHERE APPLICABLE) TO ACCOMMODATE VOLTAGE DROP PER PEC REQUIREMENTS.
- ASHRAE 2010, BC BUILDING CODE 2012, CANADIAN ELECTRICAL CODE 2015, NATIONAL BUILDING CODE 2015 AND ALL APPLICABLE CODES APPLY.

NOTES

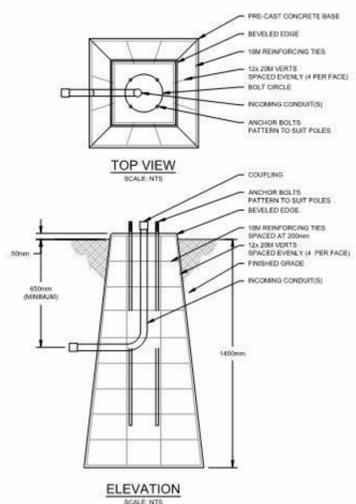
- SEE DETAIL 02/E0S1 AND 03/E0S1 FOR POLE AND POLE BASE DETAILS. LUMINAIRE SPECIFICATION AND MOUNTING HEIGHT TO BE CONFIRMED BY PCA DEPARTMENTAL REPRESENTATIVE. LUMINAIRES TO BE CONTROLLED BY EXTERIOR PHOTOCELL/TIMECLOCK. SEE DETAIL 01/E4.
- CONDUIT TO RUN UNDERGROUND TO ELECTRICAL ROOM.
- PCA PROVIDED POWER PULLBOX LOCATION. UTILIZE EXISTING 103mmC CONDUIT. PROVIDE 4# RW90XL CU WIRING FROM PULLBOX TO TRANSFORMER IN ELECTRICAL ROOM. COORDINATE EXACT PULLBOX LOCATION.
- PCA PROVIDED COMMUNICATIONS PULLBOX LOCATION. UTILIZE EXISTING 78mmC CONDUIT TO TELEPHONE TERMINAL BOARD IN ELECTRICAL ROOM. COORDINATE EXACT PULLBOX LOCATION.
- ELECTRICAL ROOM LOCATION.
- EXISTING LIGHTING STANDARD TO BE REMOVED AND DISPOSED OF. REMOVE UNDERGROUND UNUSED CONDUIT/WIRING, DISPOSE AND MAKE INSTALLATION SAFE. COORDINATE WITH PCA DEPARTMENTAL REPRESENTATIVE.
- PROVIDE JUNCTION BOX FOR FUTURE SIGNAGE LOCATION. PROVIDE 21mmC-2#10 CU CONDUIT FROM JUNCTION BOX TO WASHROOM BUILDING.
- PROVIDE CONCRETE ENCASEMENT FOR CONDUIT UNDER BUILDING. SEE DETAIL 04/E0S1.
- EXISTING POWER & COMMUNICATION CONDUIT TO PULLBOXES TO REMAIN. COORDINATE WITH CIVIL DRAWINGS.
- CONTRACTOR TO CONFIRM BURIAL DEPTH OF POWER LINE AND COMMUNICATIONS TRENCH WITH AUTHORITY HAVING JURISDICTION.



4 DUCT BANK DETAIL
E0S1 NTS



2 SINGLE POLE ELEVATION
E0S1 1 : 100



3 POLE BASE DETAIL
E0S1 1 : 100

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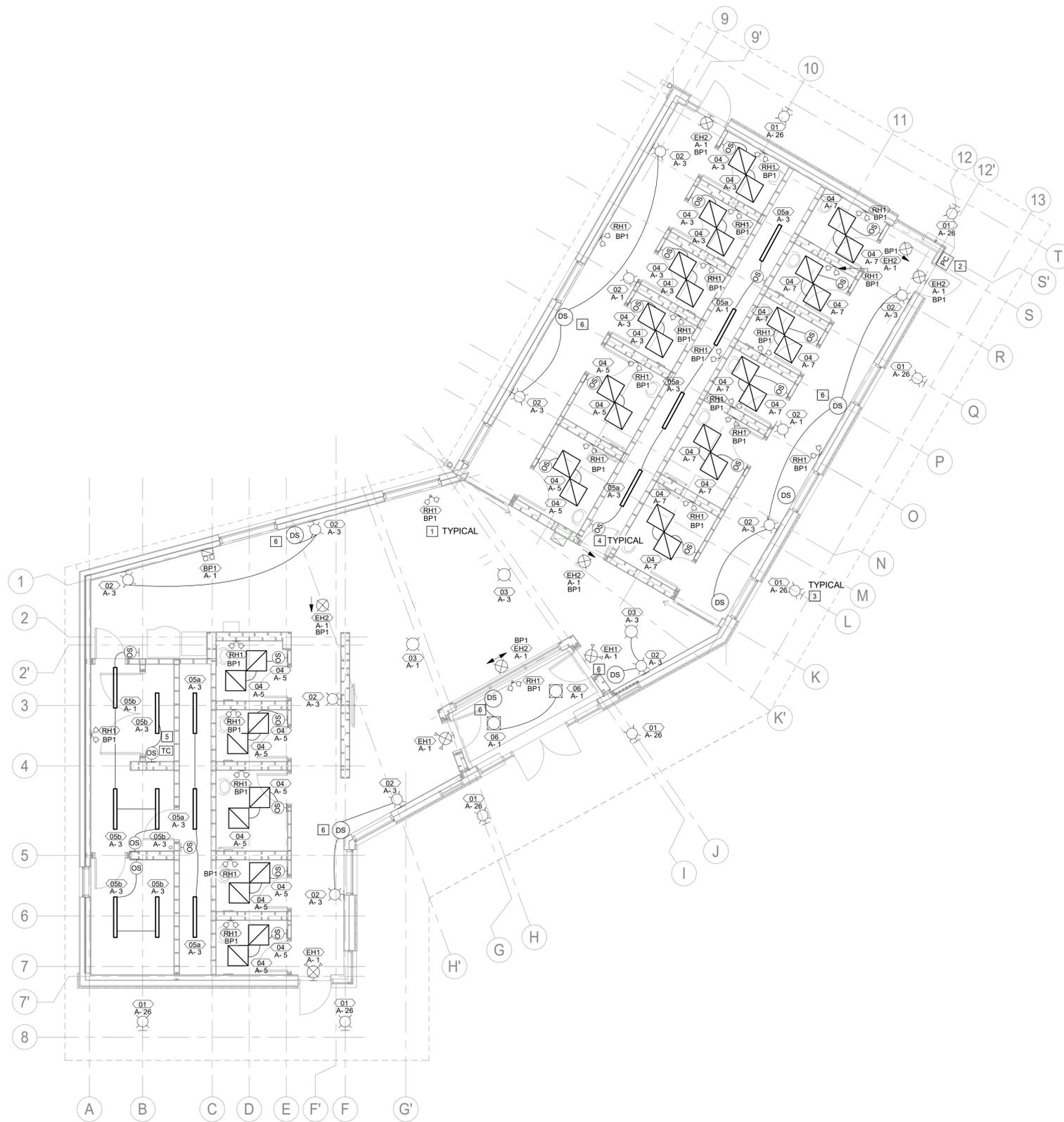
ELECTRICAL SITE PLAN

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1. ALL DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. WHERE DISCREPANCIES ARE FOUND, THEY SHOULD BE BROUGHT FORWARD PRIOR TO TENDER CLOSE.
2. CONDUCTOR SIZES INDICATED IS MINIMUM REQUIRED. INCREASE CONDUCTOR SIZE (AND CONDUIT SIZE WHERE APPLICABLE) TO ACCOMMODATE VOLTAGE DROP PER CEC REQUIREMENTS.
3. ASHRAE 2010, BC BUILDING CODE 2012, CEC 2015, NATIONAL BUILDING CODE AND ALL APPLICABLE CODES APPLY.

NOTES

1. PROVIDE MINIMUM #10 DC WIRING FOR ALL EMERGENCY REMOTE HEADS. INCREASE CONDUCTOR SIZE AS REQUIRED TO NEGATE VOLTAGE DROP AS PER THE C.E.C.
2. PROVIDE REQUIRED PHOTOCELL MOUNTED ON WALL FOR EXTERIOR LIGHTING CONTROL. REFER TO EXTERIOR LIGHTING CONTROL SCHEMATIC DETAIL 02/E4.
3. EXTERIOR LIGHTING TO BE CONTROLLED BY PHOTOCELL-TIMECLOCK. REFER TO EXTERIOR LIGHTING CONTROL SCHEMATIC DETAIL 02/E4. LUMINAIRES TO BE MOUNTED AT 8FT ABOVE GROUND ON STRUCTURAL COLUMNS.
4. WALL MOUNT MANUAL ON/AUTO OFF OCCUPANCY SENSOR TO CONTROL LUMINAIRES AS INDICATED. SET TIMER TO 10 MIN DELAY.
5. PROVIDE INTERIOR TIME CLOCK TO CONTROL ALL LIGHTING. INTERLOCK ALL LUMINAIRES WITH INTERIOR TIMECLOCK. SEE DETAIL 03/E4.
6. PROVIDE DAYLIGHT SENSOR TO CONTROL LIGHTING NEAR WINDOWS AS INDICATED. LIGHTING TO BE DIMMED TO 50% WHEN DAYLIGHT IS SENSED.

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ROGERS PASS WASHROOM FACILITY AND DAY USE AREA

Approved by / Approuvé par
MB

Designed by / Conçue par
DK

Drawn by / Dessiné par
FT

Project Manager / Administrateur de Projets

Architectural and Engineering Resources Manager /
Ressources Architectural et de Directeur d'ingénierie

Client / client
Parks Canada

Drawing title / Titre du dessin

FLOOR PLAN - LIGHTING

Project No. / No. du projet
CAI 752

Sheet / Feuille
E1

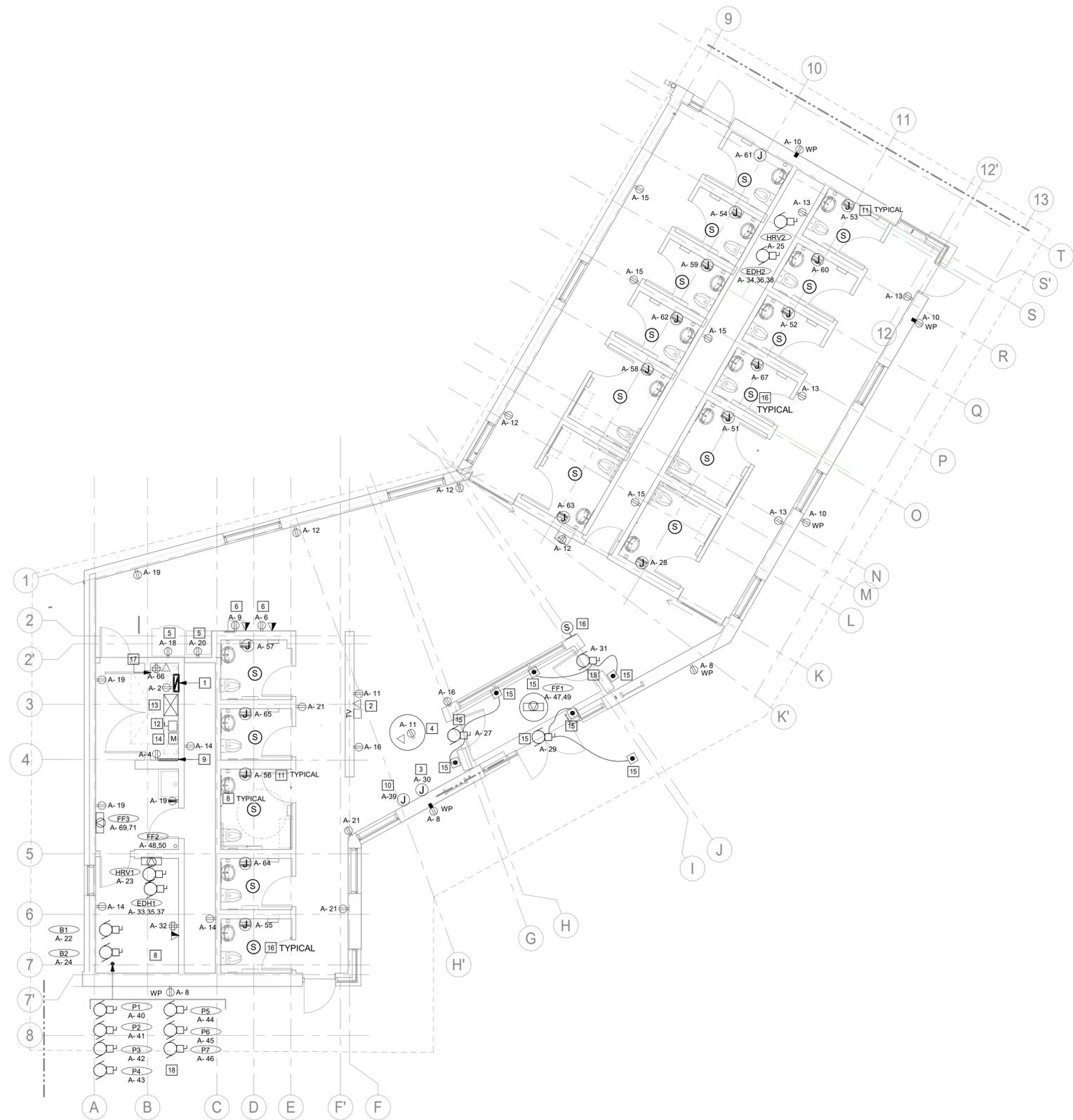
Revision no. /
La Révision no.

01 FLOOR PLAN - LIGHTING
E1 1:75





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GENERAL NOTES

1. ALL DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. WHERE DISCREPANCIES ARE FOUND, THEY SHOULD BE BROUGHT FORWARD PRIOR TO TENDER CLOSE.
2. CONDUCTOR SIZES INDICATED IS MINIMUM REQUIRED. INCREASE CONDUCTOR SIZE (AND CONDUIT SIZE WHERE APPLICABLE) TO ACCOMMODATE VOLTAGE DROP PER CEC REQUIREMENTS.
3. ASHRAE 2010, BC BUILDING CODE 2012, CEC 2015, NATIONAL BUILDING CODE AND ALL APPLICABLE CODES APPLY.

NOTES

- 1 PROVIDE NEW 120/208V, 3PH, 4W, 400A, 84CCT PANEL A C/W INTEGRAL BREAKER. MAINTAIN CLEARANCE AS PER C.E.C 2018. PROVIDE NEW BREAKERS AS INDICATED ON PANEL SCHEDULE. SEE SINGLE LINE DIAGRAM 01/E4 FOR DETAILS.
- 2 PROVIDE RECEPTACLE AND DATA CONNECTION FOR RECEPTION TV AT 60" AFF. CONFIRM EXACT LOCATION ON SITE.
- 3 PROVIDE JUNCTION BOX FOR SIGNAGE. INTERLOCK WITH EXTERIOR TIME CLOCK. SEE DETAIL 02/E4. CONFIRM EXACT LOCATION ON SITE.
- 4 PROVIDE DATA FOR WIFI CONNECTION. COORDINATE REQUIREMENTS ON SITE.
- 5 PROVIDE 15A RECEPTACLE FOR VENDING MACHINE. COORDINATE REQUIREMENTS WITH VENDING MACHINE SUPPLIER.
- 6 PROVIDE 15A RECEPTACLE AND DATA FOR TELEPHONE. COORDINATE REQUIREMENTS ON SITE.
- 7 NOT USED.
- 8 PROVIDE VOICE/DATA, HARDWIRED TELEPHONE CONNECTION. SECURITY RECEPTACLES AND EXTRA RECEPTACLES FOR MECHANICAL EQUIPMENT COORDINATION. COORDINATE WITH MECHANICAL CONTRACTOR.
- 9 PROVIDE 3/4"x4"x3" TELEPHONE TERMINAL BOARD C/W PLYWOOD BACKING PAINTED WITH FIRE RETARDANT PAINT. UTILIZE EXISTING 3" CONDUIT FROM PULLBOX. SEE SITE PLAN FOR DETAILS.
- 10 PROVIDE 120V JUNCTION BOX FOR SITE LIGHTING. COORDINATE SITE LIGHTING WITH LANDSCAPE.
- 11 PROVIDE 20A JUNCTION BOX FOR HAND DRYER. CONFIRM EXACT LOCATION AND SPECIFICATION.
- 12 PROVIDE 3P-100AF/3P-80AT DISCONNECT SWITCH. SEE SINGLE LINE DIAGRAM FOR DETAILS.
- 13 PROVIDE 75KVA 600-208V STEP DOWN FLOOR MOUNTED TRANSFORMER. MAINTAIN CLEARANCE AS PER C.E.C 2018. SEE SINGLE LINE DIAGRAM FOR DETAILS.
- 14 PROVIDE UTILITY METER. SEE SINGLE LINE DIAGRAM FOR DETAILS.
- 15 PROVIDE ELECTRICAL CONNECTION & PUSH BUTTON FOR HANDICAP DOOR OPENER. COORDINATE WITH HARDWARE SUPPLIER PRIOR TO ROUGH-IN. DEVICES TO BE MOUNTED ON MULLION, ONLY RIGHT LEAF WILL BE ACTIVATED.
- 16 PROVIDE JUNCTION BOX FOR SPEAKER LOCATIONS. CEILING SPEAKER MODEL NO: POLK AUDIO 70 RT FULL RANGE DUAL-PORT IN-CEILING LOUDSPEAKER OR EQUIVALENT TO BE APPROVED BY DEPARTMENT REP. CONFIRM EXACT WALL MOUNTED SPEAKER MODEL NUMBER WITH DEPARTMENTAL REP. COORDINATE ALL SPEAKER WIRING ACCORDING TO MANUFACTURER MAKE AND MODEL INSTRUCTIONS. COORDINATE WALL MOUNTED SPEAKER MOUNTING HEIGHTS.
- 17 PROVIDE DEDICATED OUTLET FOR STEREO SYSTEM. COORDINATE ALL STEREO EQUIPMENT LOCATION AND REQUIREMENTS WITH SPEAKER SYSTEM CONTRACTOR.
- 18 COORDINATE EXACT PUMP LOCATIONS WITH MECHANICAL CONTRACTOR.

7	ISSUED FOR TENDER	18-12-13
6	99% REVIEW	18-10-26
5	99% REVIEW	18-10-19
4	99% REVIEW	18-10-03
3	90% REVIEW	18 08 17
2	60% REVIEW	18 06 08
1	30% REVIEW	18 03 23
Revision /	Description / Description	Date / Date
Client / client		



Project title/Titre du projet

ROGERS PASS WASHROOM FACILITY AND DAY USE AREA

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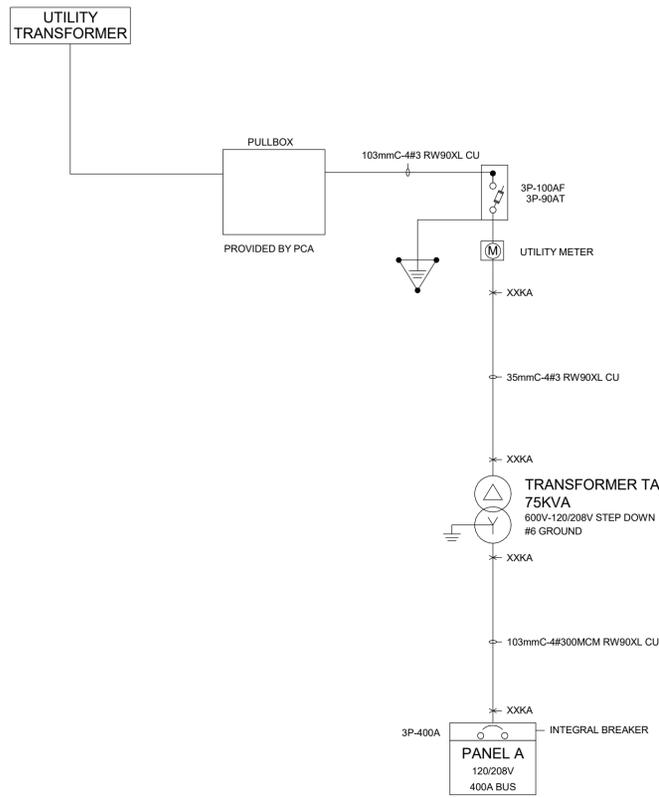
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FLOOR PLAN - POWER & AUXILIARY

Project No. / No. du project CAI 752	Sheet / Feuille E2	Revision no. / La Révision no.
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01 FLOOR PLAN - POWER & AUXILIARY
E2 1:75



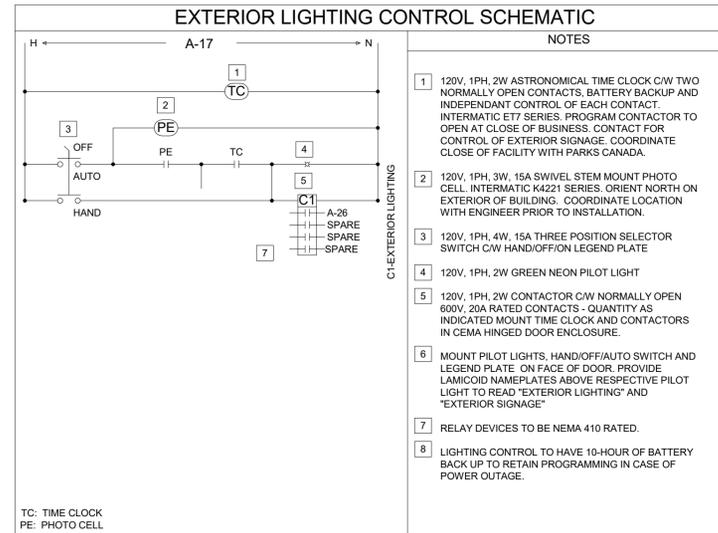


1
E4 SINGLE LINE DIAGRAM
1 : 75

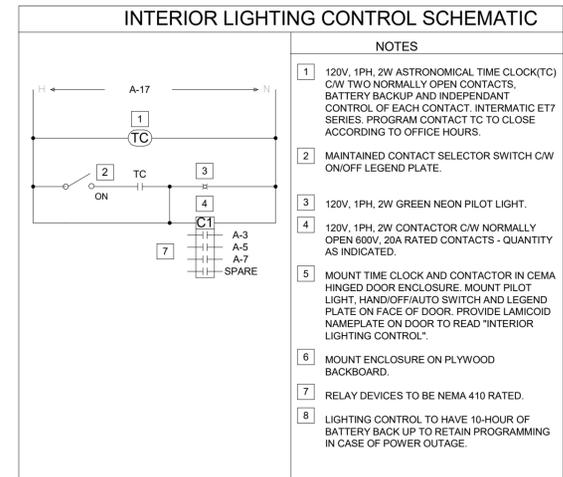
SINGLE LINE SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	PADMOUNT TRANSFORMER. PROVIDE THE FOLLOWING <ul style="list-style-type: none"> PAD PROTECTIVE BOLLARDS/GUARDRAIL BLAST WALL (IF NECESSARY) SECONDARY CONDUIT AND WIRING GROUND GRID AND GROUND TEST PER UTILITY REQUIREMENTS CONFIRM ALL REQUIREMENTS SET OUT BY UTILITY.
	PANEL. SEE PANEL SCHEDULE FOR EXACT REQUIREMENTS.
	PANEL C/W INTEGRAL MAIN BREAKER. SEE PANEL SCHEDULE FOR EXACT REQUIREMENTS.
	DELTA/WYE CLASS H TRANSFORMER C/W COPPER WINDINGS (ALUMINUM WINDING NOT ACCEPTABLE). VOLTAGE/KVA RATING AS INDICATED. SEE NOTES/SINGLE LINE WHERE ALTERNATE TYPE TRANSFORMER IS REQUIRED.
	GROUND GRID. SEE GROUNDING DETAIL AND/OR SPECIFICATIONS.
	SYSTEM/EQUIPMENT GROUND
	DEMAND METER AND ENCLOSURE TO UTILITY REQUIREMENTS. PROVIDE AND WIRING TO UTILITY CITY/PT COMPARTMENTS PER UTILITY REQUIREMENTS.
	CIRCUIT BREAKER C/W GROUND FAULT SHUNT TRIP
	CIRCUIT BREAKER. RATING AS INDICATED.
	FUSED DISCONNECT (3P-100AF/100A INDICATES 100A FRAME WITH 100A FUSES)
	COMBINATION FUSED DISCONNECT AND UTILITY DEMAND METER ASSEMBLY TO UTILITY REQUIREMENTS.
	CALCULATED AVAILABLE FAULT CURRENT
	CONDUIT AND WIRE SIZES

NOTES

- EQUIPMENT/OVERCURRENT DEVICES MAY BE SERIES RATED FOR INTEGRATED EQUIPMENT RATING (IER). CONTRACTOR TO PROVIDE LAMICOID LABELS ON ALL EQUIPMENT INDICATING SUCH RATING.
- SPECIFIED EQUIPMENT IS MANUFACTURED BY SEIMENS. DIMENSIONS OF EQUIPMENT BASED UPON SEIMENS. ALTERNATIVE MANUFACTURERS ARE SCHNEIDER AND CUTLER HAMMER. CONTRACTOR TO SUBMIT ROOM LAYOUTS WITH NEW DIMENSIONS TO ENGINEER FOR APPROVAL OF ALTERNATIVE EQUIPMENT.
- ALL CONDUCTORS INDICATED ARE RW90XL-1000V-COPPER. SEE FOLLOWING NOTES.
- ALUMINUM CONDUCTORS #3/0 AWG AND LARGER MAY BE UTILIZED IN LIEU OF COPPER. CONTRACTOR TO CONTACT AND OBTAIN PERMISSION FROM ENGINEER PRIOR TO TENDER CLOSING AND INSTALLATION. CONTRACTOR TO MODIFY CONDUIT SIZES TO SUIT. CONTRACTOR TO RECORD CHANGES ON AS-BUILT DWGS. ALUMINUM CONDUCTOR AMPACITY MUST BE EQUAL TO OR GREATER THAN THAT OF COPPER CONDUCTOR AMPACITY.
- CONDUCTOR SIZES INDICATED IS MINIMUM REQUIRED. INCREASE CONDUCTOR SIZE (AND CONDUIT SIZE WHERE APPLICABLE) TO ACCOMMODATE VOLTAGE DROP PER CEC REQUIREMENTS.
- BELOW GRADE CONDUITS TO BE RIGID PVC UNLESS SPECIFICALLY INDICATED OTHERWISE.
- ABOVE GRADE CONDUITS TO BE ELECTRICALLY METALLIC TUBING (EMT) OR RIGID STEEL UNLESS SPECIFICALLY INDICATED OTHERWISE.
- ALL CONDUITS TERMINATING AT TRANSFORMERS, MOTORS, VIBRATING EQUIPMENT TO BE WATERPROOF SEALED FLEXIBLE CONDUIT UNLESS SPECIFICALLY INDICATED OTHERWISE.
- PROVIDE GROUND CONDUCTORS IN ALL BELOW GRADE CONDUITS AND IN ABOVE GRADE CONDUITS AS REQUIRED BY THE CANADIAN ELECTRICAL CODE.
- PROVIDE COORDINATION STUDY FOR ALL OVERCURRENT DEVICES. SET DEVICES AS DETERMINED FROM THE STUDY. UTILIZE EQUIPMENT MANUFACTURER AND/OR INDEPENDENT AGENCY.



2
E4 EXTERIOR LIGHTING CONTROL
N.T.S.



3
E4 INTERIOR LIGHTING CONTROL
N.T.S.



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**ROGERS PASS WASHROOM
FACILITY AND DAY USE
AREA**

Approved by/Approuvé par
Approver

Designed by/Concepté par
Designer

Drawn by/Dessiné par
Author
Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/
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ELECTRICAL DETAILS

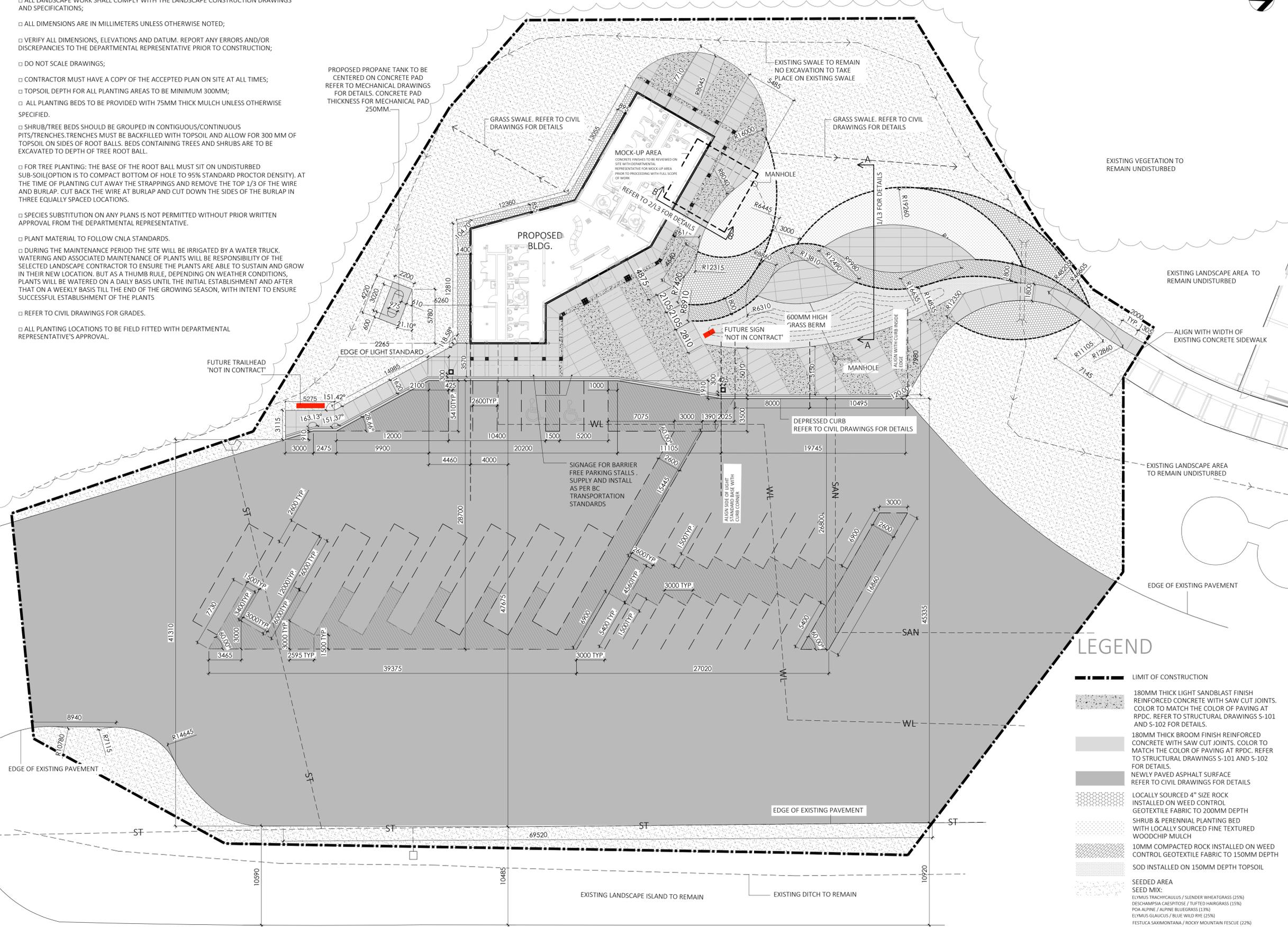
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CAI 752	E4	



NOTE

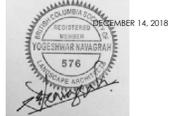
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- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED;
- VERIFY ALL DIMENSIONS, ELEVATIONS AND DATUM. REPORT ANY ERRORS AND/OR DISCREPANCIES TO THE DEPARTMENTAL REPRESENTATIVE PRIOR TO CONSTRUCTION;
- DO NOT SCALE DRAWINGS;
- CONTRACTOR MUST HAVE A COPY OF THE ACCEPTED PLAN ON SITE AT ALL TIMES;
- TOPSOIL DEPTH FOR ALL PLANTING AREAS TO BE MINIMUM 300MM;
- ALL PLANTING BEDS TO BE PROVIDED WITH 75MM THICK MULCH UNLESS OTHERWISE SPECIFIED.
- SHRUB/TREE BEDS SHOULD BE GROUPED IN CONTIGUOUS/CONTINUOUS PITS/TRENCHES. TRENCHES MUST BE BACKFILLED WITH TOPSOIL AND ALLOW FOR 300 MM OF TOPSOIL ON SIDES OF ROOT BALLS. BEDS CONTAINING TREES AND SHRUBS ARE TO BE EXCAVATED TO DEPTH OF TREE ROOT BALL.
- FOR TREE PLANTING: THE BASE OF THE ROOT BALL MUST SIT ON UNDISTURBED SUB-SOIL (OPTION IS TO COMPACT BOTTOM OF HOLE TO 95% STANDARD PROCTOR DENSITY). AT THE TIME OF PLANTING CUT AWAY THE STRAPPINGS AND REMOVE THE TOP 1/3 OF THE WIRE AND BURLAP. CUT BACK THE WIRE AT BURLAP AND CUT DOWN THE SIDES OF THE BURLAP IN THREE EQUALLY SPACED LOCATIONS.
- SPECIES SUBSTITUTION ON ANY PLANS IS NOT PERMITTED WITHOUT PRIOR WRITTEN APPROVAL FROM THE DEPARTMENTAL REPRESENTATIVE.
- PLANT MATERIAL TO FOLLOW CNLA STANDARDS.
- DURING THE MAINTENANCE PERIOD THE SITE WILL BE IRRIGATED BY A WATER TRUCK. WATERING AND ASSOCIATED MAINTENANCE OF PLANTS WILL BE RESPONSIBILITY OF THE SELECTED LANDSCAPE CONTRACTOR TO ENSURE THE PLANTS ARE ABLE TO SUSTAIN AND GROW IN THEIR NEW LOCATION. BUT AS A THUMB RULE, DEPENDING ON WEATHER CONDITIONS, PLANTS WILL BE WATERED ON A DAILY BASIS UNTIL THE INITIAL ESTABLISHMENT AND AFTER THAT ON A WEEKLY BASIS TILL THE END OF THE GROWING SEASON, WITH INTENT TO ENSURE SUCCESSFUL ESTABLISHMENT OF THE PLANTS
- REFER TO CIVIL DRAWINGS FOR GRADES.
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EXISTING VEGETATION TO REMAIN UNDISTURBED



LEGEND

- LIMIT OF CONSTRUCTION
- 180MM THICK LIGHT SANDBLAST FINISH REINFORCED CONCRETE WITH SAW CUT JOINTS. COLOR TO MATCH THE COLOR OF PAVING AT RPDC. REFER TO STRUCTURAL DRAWINGS S-101 AND S-102 FOR DETAILS.
- 180MM THICK BROOM FINISH REINFORCED CONCRETE WITH SAW CUT JOINTS. COLOR TO MATCH THE COLOR OF PAVING AT RPDC. REFER TO STRUCTURAL DRAWINGS S-101 AND S-102 FOR DETAILS.
- NEWLY PAVED ASPHALT SURFACE REFER TO CIVIL DRAWINGS FOR DETAILS
- LOCALLY SOURCED 4" SIZE ROCK INSTALLED ON WEED CONTROL GEOTEXTILE FABRIC TO 200MM DEPTH
- SHRUB & PERENNIAL PLANTING BED WITH LOCALLY SOURCED FINE TEXTURED WOODCHIP MULCH
- 10MM COMPACTED ROCK INSTALLED ON WEED CONTROL GEOTEXTILE FABRIC TO 150MM DEPTH
- SOD INSTALLED ON 150MM DEPTH TOPSOIL
- SEEDING AREA
- SEED MIX:
 - ELYMUS TRACHYCAULUS / SLENDER WHEATGRASS (25%)
 - DESCHAMPSIA CAESPITOSE / TUFTED HAIRGRASS (15%)
 - POA ALPINE / ALPINE BLUEGRASS (15%)
 - ELYMUS GLAUCUS / BLUE WILD RYE (25%)
 - FESTUCA SAXIMONTANA / ROCKY MOUNTAIN FESCUE (22%)
- PAINTED ROAD MARKING AS PER BC TRANSPORTATION ROAD STANDARDS
- PAINTED YELLOW LINE FOR VEHICULAR PARKING AS PER BC TRANSPORTATION ROAD STANDARDS
- LIGHT STANDARD REFER TO ELECTRICAL DRAWINGS FOR DETAILS
- ALUMINUM EDGER COMMERCIAL GRADE, MILL FINISH, LANDSCAPE EDGER 2" INCH (INSTALL AS PER MANUFACTURE'S INSTRUCTIONS)



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5	99% REVIEW SET	181012
6	TENDER	181214

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Client / client		



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Glacier National Park, BC, Canada
PCA - ROGERS PASS WASHROOM FACILITY

Approved by / Approuvé par
YN

Designed by / Concept par
YN

Drawn by / Dessiné par
HL/YN

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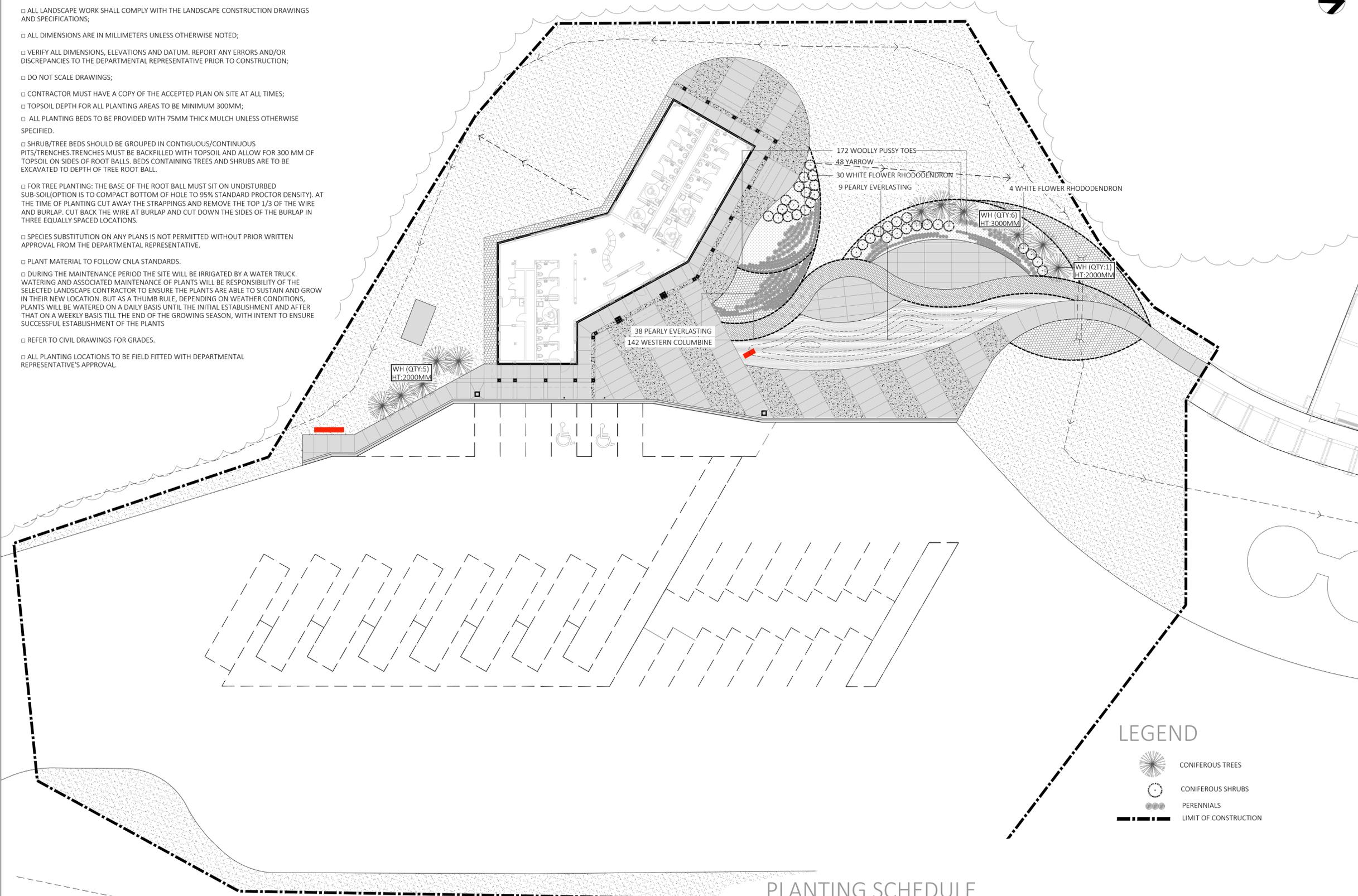
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LAYOUT PLAN
SCALE: 1:200

Project No. / No. du projet	Sheet / Feuille	Revision no. / La Révision no.
45392636	L-1	

NOTE

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- PLANT MATERIAL TO FOLLOW CNLA STANDARDS.
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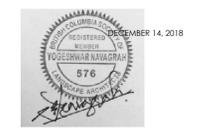


LEGEND

- CONIFEROUS TREES
- CONIFEROUS SHRUBS
- PERENNIALS
- LIMIT OF CONSTRUCTION

PLANTING SCHEDULE

common name	latin name	type	size/ spread	quantity	spacing
coniferous trees					
WH WESTERN HEMLOCK	TSUGA HETEROPHYLLA	B&B	2000MM HT.	06	3000MM
WH WESTERN HEMLOCK	TSUGA HETEROPHYLLA	B&B	3000MM HT.	06	3000MM
common name	latin name	type	size/ spread	quantity	
deciduous shrubs					
WHITE FLOWERED RHODODENDRON	RHODODENDRON ALBIFLORUM	CONTAINER	600MM HT	34	1000MM
perennials					
PEARLY EVERLASTING	ACHILLEA MILLEFOLIUM	CONTAINER	#2 POT.	48	500MM
WOOLLY PUSSY TOES	ANAPHALIS MARGARITACEA	CONTAINER	#2 POT.	47	500MM
WESTERN COLUMBINE	ANTENNARIA LANATA	CONTAINER	#2 POT.	172	300MM
	AQUILEGIA FORMOSA	CONTAINER	#2 POT.	142	300MM



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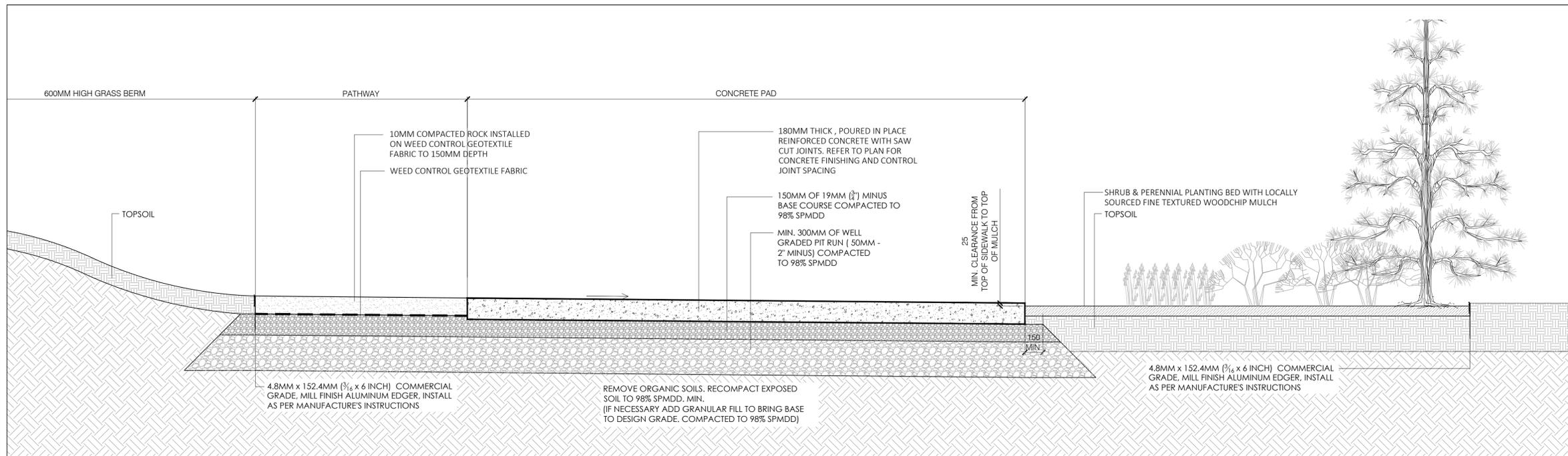
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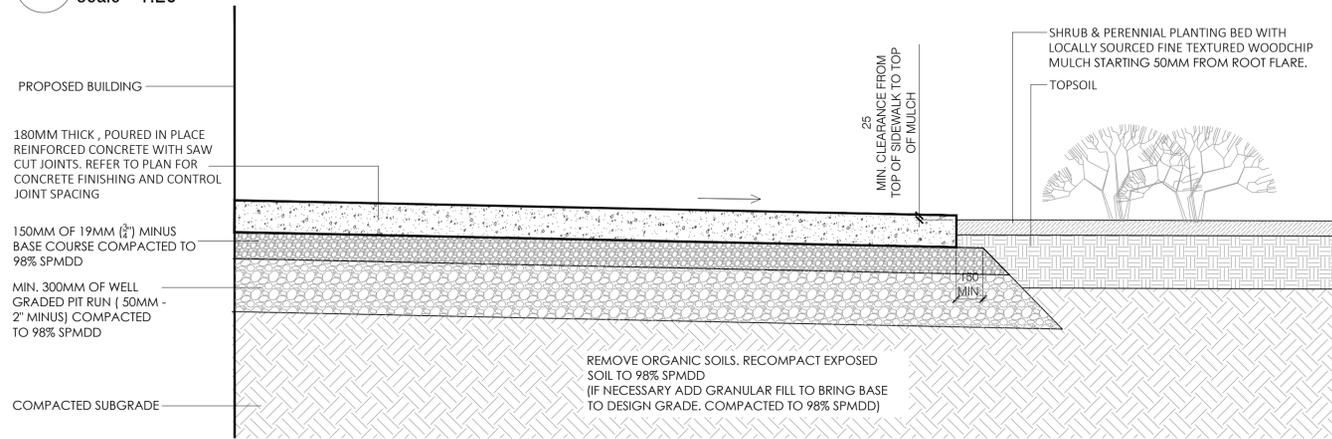
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PLANTING PLAN		
SCALE: 1:200		
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1 SECTION AA - PLANTING AREA
L-3 scale - 1:20



2 SECTION BB - SIDEWALK
L-3 scale - 1:20

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- TOPSOIL DEPTH FOR ALL PLANTING AREAS TO BE MINIMUM 300MM;
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- SHRUB/TREE BEDS SHOULD BE GROUPED IN CONTIGUOUS/CONTINUOUS PITS/TRENCHES. TRENCHES MUST BE BACKFILLED WITH TOPSOIL AND ALLOW FOR 300 MM OF TOPSOIL ON SIDES OF ROOT BALLS. BEDS CONTAINING TREES AND SHRUBS ARE TO BE EXCAVATED TO DEPTH OF TREE ROOT BALL.
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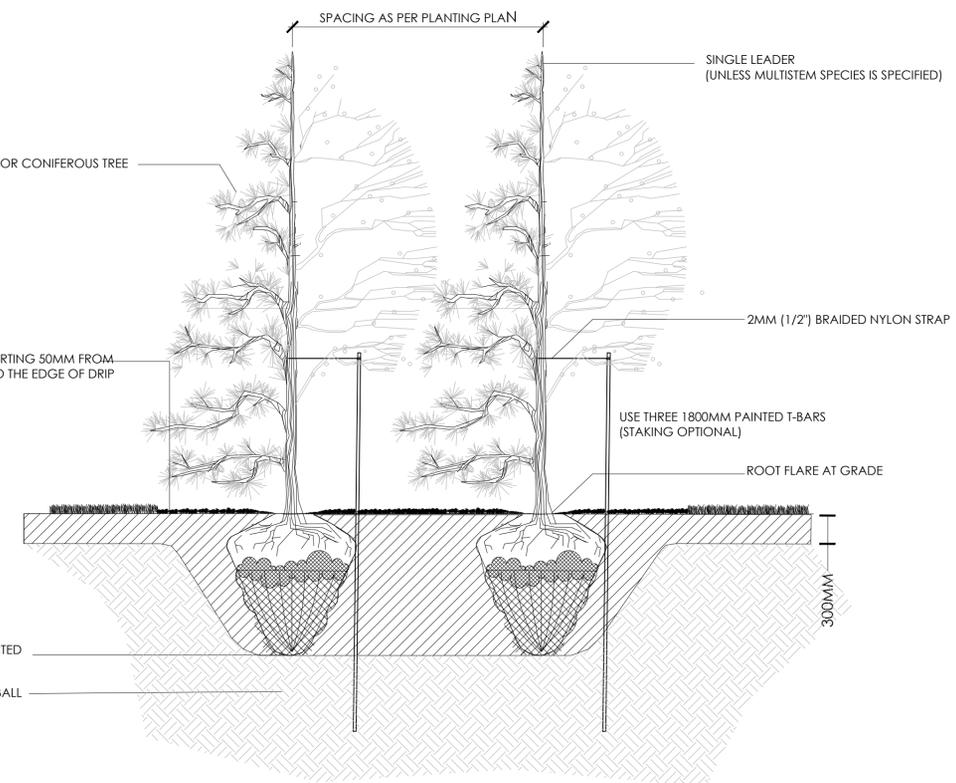
- NOTES:**
- EDGE OF BED TO BE STAKED AND APPROVED BY LANDSCAPE ARCHITECT;
 - DO NOT ALLOW AIR POCKETS TO FORM WHEN BACK FILLING;
 - IF STAKING, STAKE BEYOND EDGE OF ROOT BALL. BARS SHOULD BE HAMMERED DOWN INTO SOLID FOOTING (AT LEAST 400MM INTO SUB-SOIL BASE). USE 2MM (1/2") BRAIDED NYLON STRAP TO PROTECT THE TREE AT THE POINT OF CONTACT;
 - IF TREE IS IN WIRE BASKET, CUT AND REMOVE STRAPPING AND THE HORIZONTAL / VERTICAL WIRES OF THE UPPER 1/3 AS A MINIMUM. PULL BACK BURLAP TO THE SAME MINIMUM;
 - PRUNE DEAD BRANCHES TO MAINTAIN NATURAL FORM OF TREE. DO NOT PRUNE HEAVILY AT PLANTING.

40MM TO 100MM CALIPER TREE OR CONIFEROUS TREE

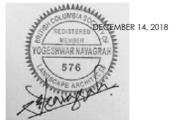
MULCH 50MM-75MM DEPTH STARTING 50MM FROM ROOT FLARE. (TRUNK) EXTEND TO THE EDGE OF DRIP LINE OR 1000MM

PLACE ROOTBALL ON COMPACTED OR UNDISTURBED SUBGRADE

COMPACT CLAY BELOW ROOTBALL



3 TREE BED DETAIL
L-3 scale - 1:20



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Project title / Titre du projet

ROGERS PASS WASHROOM FACILITY AND DAY USE AREA

Approved by / Approuvé par
YN

Designed by / Concept par
YN

Drawn by / Dessiné par
HL/YN

Project Manager / Administrateur de Projets
Author

Architectural and Engineering Resources Manager / Ressources Architecturales et de Directeur d'ingénierie
Parks Canada

Client / client
Drawing title / Titre du dessin

Project No. / No. du projet	Sheet / Feuille	Revision no. / La Revision no.
45392636	L-3	

Legend:

- FLOW DIRECTION
- 13.50 EXISTING GRADE
- PROPOSED FIRE HYDRANT
- EXISTING FIRE HYDRANT
- ⊕ EXISTING VALVE
- ⊗ VALVE
- WATERMAIN
- SANITARY SEWER
- STORM SEWER DESIGN BY WEDLER ENGINEERING
- EXISTING MANHOLE
- PROPOSED MANHOLE
- EX CATCH BASIN
- MF MAIN FLOOR
- PP POWER POLE
- CONSTRUCTION BOUNDARY
- EX HYDRO
- EX STREET LIGHT
- EX TELUS

- 110MM THICK LIGHT SANDBLAST FINISH CONCRETE WITH SAW CUT JOINTS
- 110MM THICK HEAVY SANDBLAST FINISH CONCRETE WITH SAW CUT JOINTS
- 110MM THICK BROOM FINISH CONCRETE WITH SAW CUT JOINTS
- GRAVEL
- SHRUBS
- COMPACTED ROCK
- SOD
- SEEDING AREA

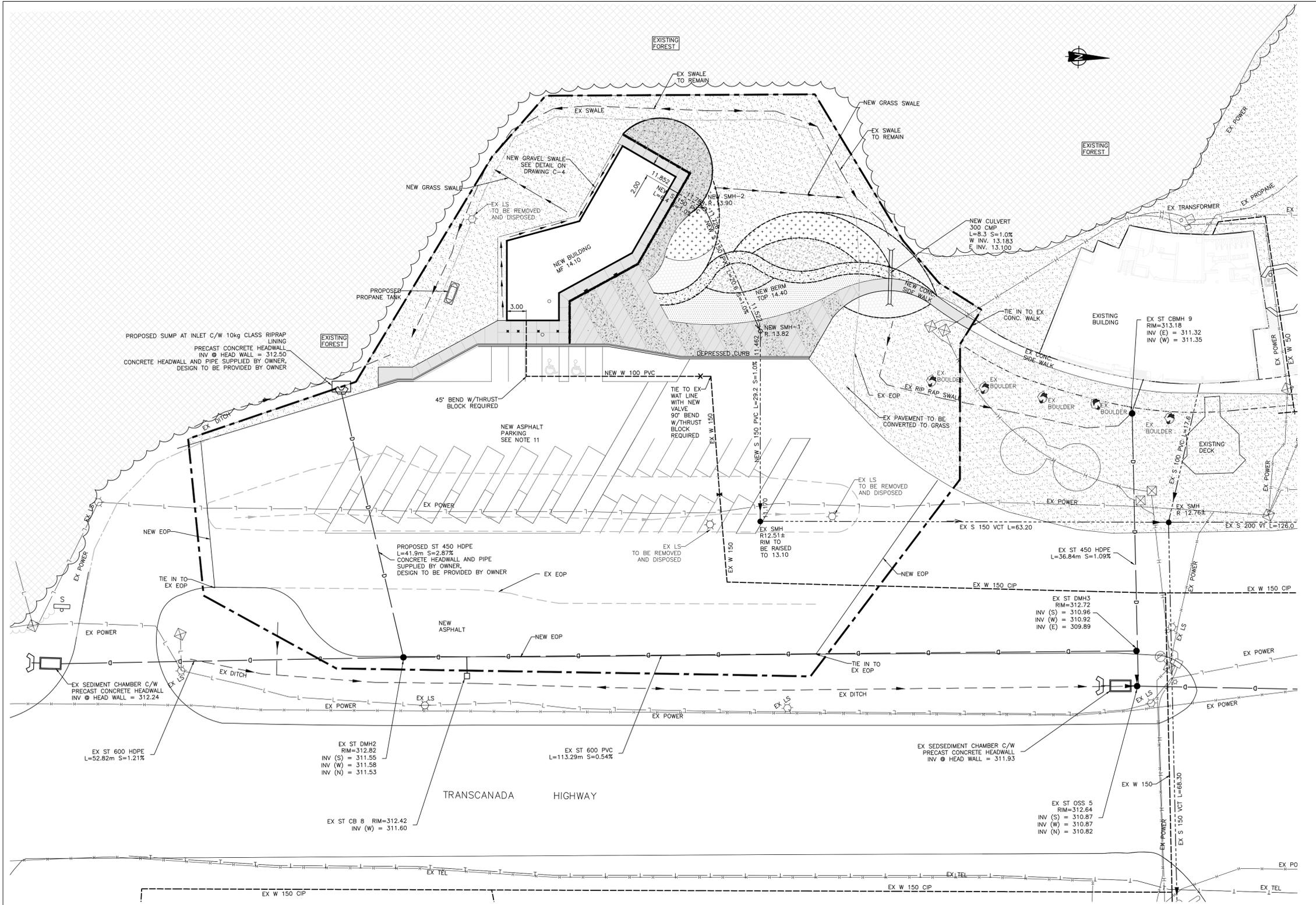
Revision / Révision	Description / Description	Date / Date
7	REV AS PER COMMENTS FROM PCA, DATED DEC. 21, 2018	01-09-19
6	REV AS PER COMMENTS FROM PCA	12-13-18
5	NEW PROPANE TANK LOCATION	10-15-18
4	REVISE AS PER COMMENTS FROM PCA	10-2-18
3	90% REVIEW	08-23-18
2	60% REVIEW	05-30-18
1	30% REVIEW	03-28-18



Project title/Titre du projet
Glacier National Park, BC, Canada
ROGERS PASS WASHROOM AND DAY USE AREA

Approved by/Approve par
 HB
 Designed by/Concept par
 CC
 Drawn by/Dessiné par
 CC/CW
 Project Manager/Administrateur de Projets
 Author
 Architectural and Engineering Resources Manager/
 Ressources Architectural et de Directeur d'ingénierie

Client / client
Parks Canada
 Drawing title / Titre du dessin
SITE SERVICING PLAN
 SCALE: 1:300
 Project No. / No. du project
 CAI 752
 Sheet / Feuille
 C-1
 Revision no. / La Revision no.



- Notes:**
- All elevations referenced to 1300m Geodetic Datum
 - The contractor is to verify the location of existing sanitary storm and water services and confirm existing inverts prior to installation within the project area. The engineer should be notified immediately of any discrepancies.
 - The contractor is responsible for locating all shallow utilities, and the depth of bury. Any conflict should be notified to engineer.
 - The contractor and building contractors should check and verify all invert elevations at the building prior to starting site work or building work. Any discrepancies or unsuitability to internal plumbing should be communicated to the engineers. No responsibility shall be undertaken by engineers for discrepancies after start of construction.
 - All sewer distribution pipes to be DR 35 PVC, all sewer service pipes to be SDR 28 PVC unless otherwise noted.
 - All work and materials done and utilized to conform to specifications attached separately.
 - Insulation to be as per specified, attached separately for sanitary sewers, if less than 2.5m cover.
 - Match crown minimum at all sewer connections
 - No trees to be planted over water line(s)
 - Asphalt structure pavement design to follow Geotechnical Engineer specifications. See details on DWG C-4
 - For concrete and landscaping finishes, descriptions and details refer to landscaping drawings.





Legend:

	FLOW DIRECTION
	EXISTING GRADE
	DESIGN GRADE
	DESIGN SLOPE
	EX CATCH BASIN
	MAIN FLOOR
	POWER POLE
	CONSTRUCTION BOUNDARY
	110MM THICK LIGHT SANDBLAST FINISH CONCRETE WITH SAW CUT JOINTS.
	110MM THICK HEAVY SANDBLAST FINISH CONCRETE WITH SAW CUT JOINTS.
	110MM THICK BROOM FINISH CONCRETE WITH SAW CUT JOINTS.
	GRAVEL
	SHRUB
	COMPACTED ROCK
	SOD
	SEEDED AREA

7	REV AS PER COMMENTS FROM PCA, DATED DEC. 21, 2016	01-09-19
6	REV AS PER COMMENTS FROM PCA	12-13-18
5	NEW PROPANE TANK LOCATION	10-15-18
4	REVISE AS PER COMMENTS FROM PCA	10-2-18
3	90% REVIEW	08-23-18
2	60% REVIEW	05-30-18
1	30% REVIEW	03-28-18
Revision /	Description / Description	Date / Date
Client / client		



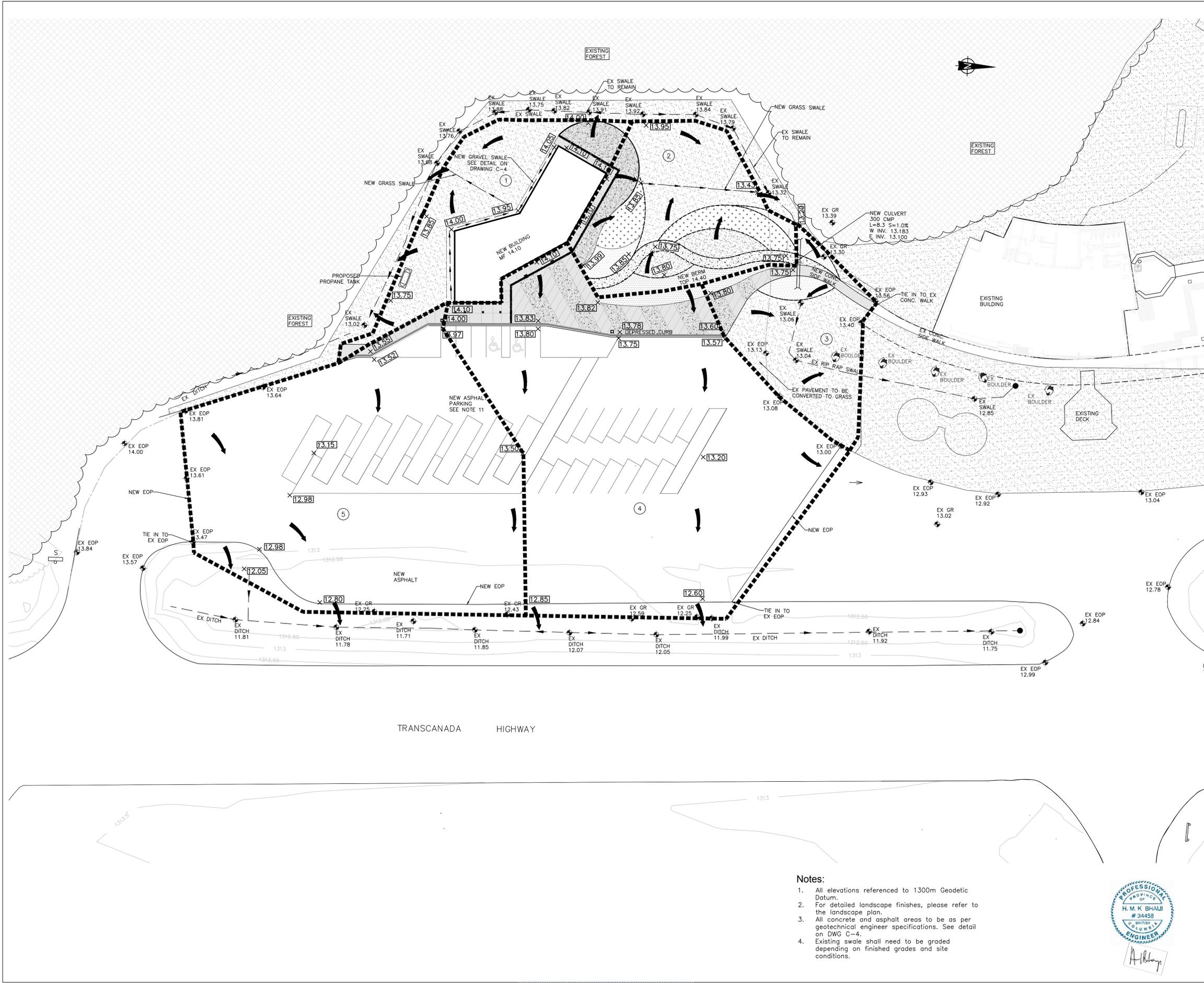
Project title/Titre du projet
**Glacier National Park,
 BC, Canada**
**ROGERS PASS
 WASHROOM AND DAY
 USE AREA**

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 Author
 Architectural and Engineering Resources Manager/
 Ressources Architectural et de Directeur d'Ingénierie
 Client / client
Parks Canada
 Drawing title / Titre du dessin

SITE GRADING PLAN		
SCALE: 1:300		
Project No. / No. du project CAI 752	Sheet / Feuille C-2	Revision no. / La Revision no.

- Notes:**
1. All elevations referenced to 1300m Geodetic Datum.
 2. For detailed landscape finishes, please refer to the landscape plan.
 3. All concrete and asphalt areas to be as per geotechnical engineer specifications. See detail on DWS C-4.
 4. Existing swale shall need to be graded depending on finished grades and site conditions.





Legend:

-  13.50
 13.70
 EXISTING GRADE
 DESIGN GRADE
- 
 EX CATCH BASIN
- 
 MAIN FLOOR
- 
 CATCHMENT BOUNDARY
- 
 OVERLAND DRAINAGE ROUTE
-  A1
 CATCHMENT LABEL
-  110MM THICK LIGHT SANDBLAST FINISH CONCRETE WITH SAW CUT JOINTS.
-  110MM THICK HEAVY SANDBLAST FINISH CONCRETE WITH SAW CUT JOINTS.
-  110MM THICK BROOM FINISH CONCRETE WITH SAW CUT JOINTS.
-  GRAVEL
-  SHRUB
-  COMPACTED ROCK
-  SOD
-  SEEDED AREA

7	REV AS PER COMMENTS FROM PCA, DATED DEC. 21, 2018	01-09-19
6	REV AS PER COMMENTS FROM PCA	12-13-18
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1	30% REVIEW	03-28-18
Revision /	Description / Description	Date / Date
Client / client		


 Parks Canada
 Parcs Canada

Glacier National Park,
BC, Canada
ROGERS PASS
WASHROOM AND DAY
USE AREA

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 Author
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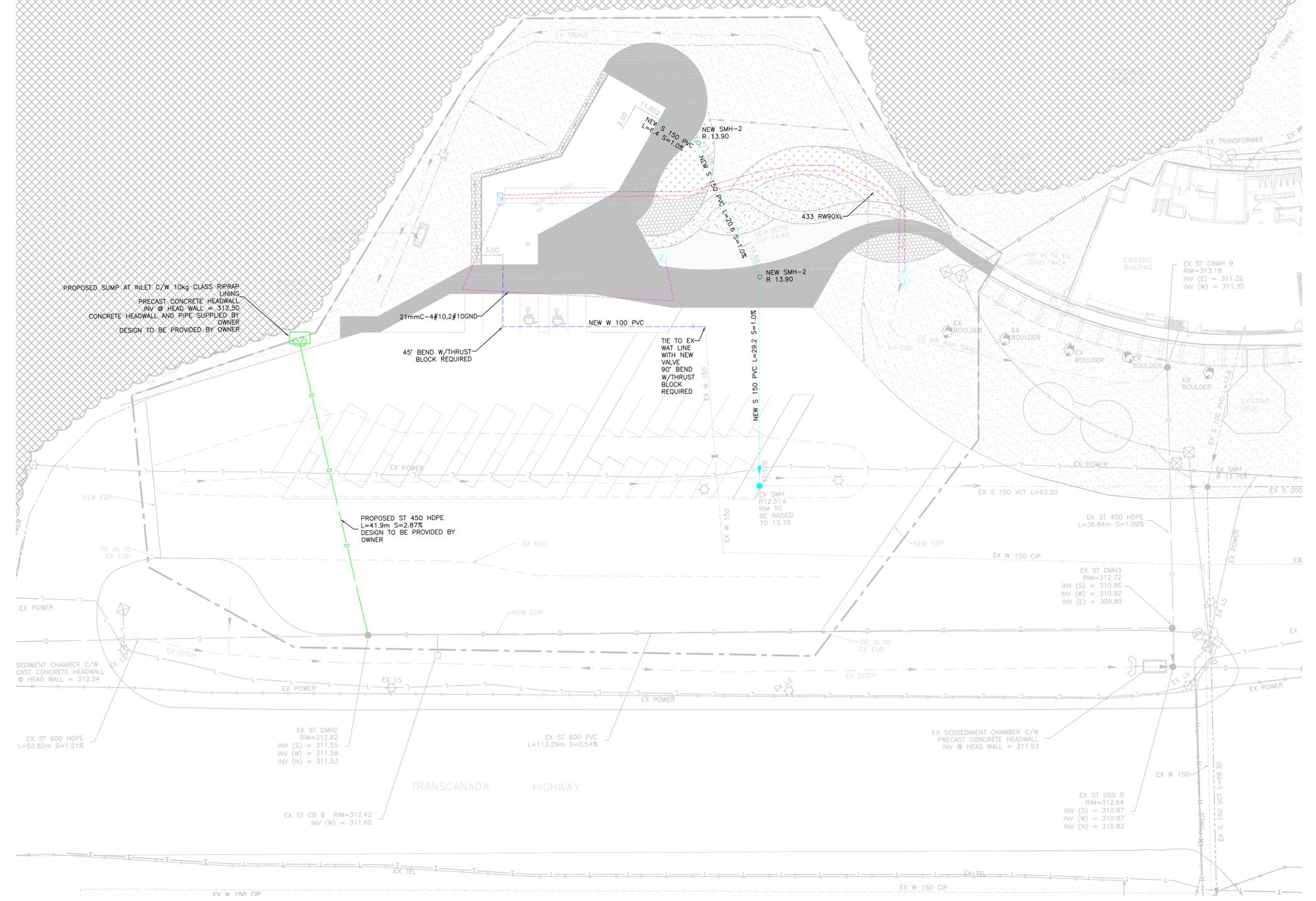
Client / client
Parks Canada
 Drawing title / Titre du dessin

SITE OVERLAND DRAINAGE PLAN
 SCALE: 1:300

Project No. / No. du project	Sheet / Feuille	Revision no. / La Revision no.
CAI 752	C-3	

- Notes:**
- All elevations referenced to 1300m Geodetic Datum.
 - For detailed landscape finishes, please refer to the landscape plan.
 - All concrete and asphalt areas to be as per geotechnical engineer specifications. See detail on DWG C-4.
 - Existing swale shall need to be graded depending on finished grades and site conditions.





Legend:

- FLOW DIRECTION
- 13.50 EXISTING GRADE
- PROPOSED FIRE HYDRANT
- EXISTING FIRE HYDRANT
- EXISTING VALVE
- VALVE
- WATERMAIN
- SANITARY SEWER
- STORM SEWER DESIGN BY WEDLER ENGINEERING
- COMMUNICATION LINE
- POWER LINE
- EXISTING MANHOLE
- PROPOSED MANHOLE
- EX CATCH BASIN
- MAIN FLOOR
- MF
- PP
- POWER POLE
- CONSTRUCTION BOUNDARY
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- 110MM THICK LIGHT SANDBLAST FINISH CONCRETE WITH SAW CUT JOINTS.
- 110MM THICK HEAVY SANDBLAST FINISH CONCRETE WITH SAW CUT JOINTS.
- 110MM THICK BROOM FINISH CONCRETE WITH SAW CUT JOINTS.
- GRAVEL
- SHRUBS
- COMPACTED ROCK
- SOD
- SEEDED AREA

REVISION / Révision	Description / Description	Date / Date
1	ISSUED FOR TENDER	10-10-18

Client / client

Client / client

**ROGERS PASS
WASHROOM AND DAY
USE AREA**

Approved by/Approve par

Designed by/Concept par

Drawn by/Dessine par

Project Manager/Administrateur de Projets
Author
Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'Ingénierie

Client / client
Parks Canada

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OVERALL UTILITIES PLAN

SCALE: 1:300

Project No. / No. du project	Sheet / Feuille	Revision no. / La Révision no.
CAI 752	I-1	1

